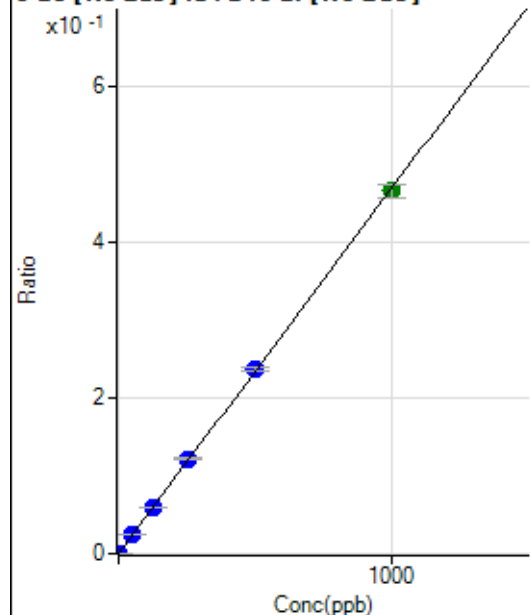


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8040523 MS.b\
 Analysis File: P8040523 MS.batch.bin
 DA Date-Time: 2023-04-05 13:13:16
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-04-05 12:47:26
2	006CALS.d	S02	2023-04-05 12:53:38
3	007CALS.d	S03	2023-04-05 12:56:43
4	008CALS.d	S04	2023-04-05 12:59:48
5	009CALS.d	S05	2023-04-05 13:02:46
6	010CALS.d	S06	2023-04-05 13:05:47
7	011CALS.d	S07	2023-04-05 13:08:45
8	012CALS.d	S08	2023-04-05 13:11:46

9 Be [No Gas] ISTD:6 Li [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.08	0.0000	P	6.2
2	☐	1.000	1.093	1723.64	0.0005	P	3.0
3	☐	50.000	53.112	82588.42	0.0249	P	1.9
4	☐	125.000	128.487	201487.53	0.0601	P	0.4
5	☐	250.000	259.918	398653.67	0.1216	P	1.4
6	☐	500.000	506.769	792988.80	0.2371	P	2.4
7	☐	1000.000	993.545	1555104.51	0.4649	A	3.4
8	☐			483.28	0.0002	P	13.7

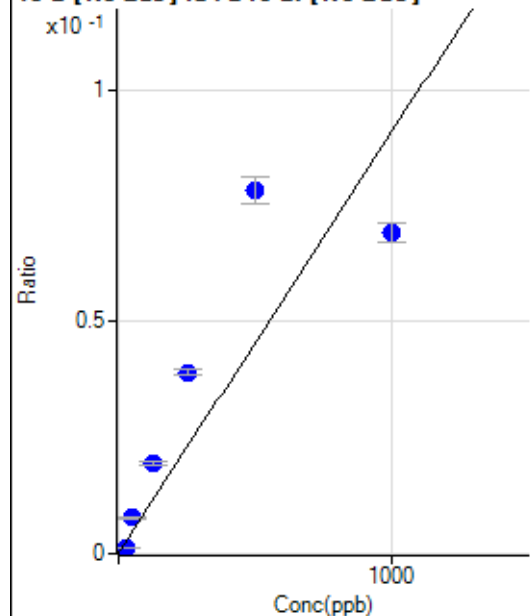
$$y = 4.6794\text{E-}004 * x + 9.5744\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.003828$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.62	0.0001	P	18.8
2	☐	25.000	14.020	4431.15	0.0013	P	4.5
3	☐	50.000	84.397	25688.06	0.0077	P	7.2
4	☐	125.000	212.013	64728.85	0.0193	P	4.5
5	☐	250.000	430.238	128259.08	0.0391	P	3.9
6	☐	500.000	861.036	261368.39	0.0782	P	7.3
7	☐	1000.000	762.101	231541.16	0.0692	P	6.2
8	☐			20214.56	0.0064	P	8.3

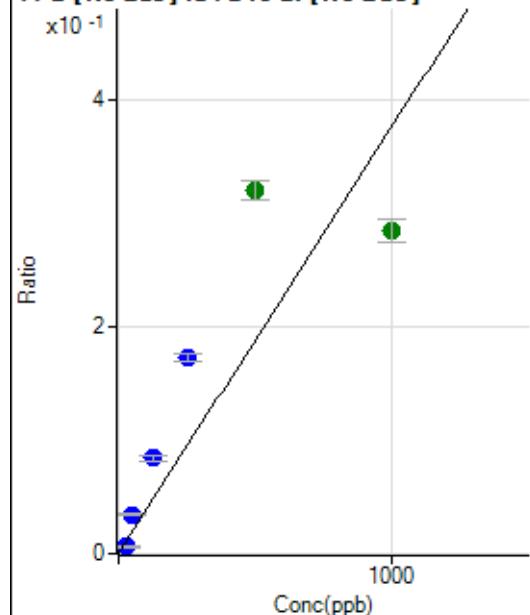
$$y = 9.0774\text{E-}005 * x + 6.5864\text{E-}005$$

$$R = 0.8686$$

$$DL = 0.4093$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	949.18	0.0003	P	2.5
2	☐	25.000	15.067	19694.01	0.0059	P	6.3
3	☐	50.000	90.901	114515.07	0.0345	P	6.2
4	☐	125.000	223.199	282236.15	0.0842	P	5.1
5	☐	250.000	459.637	567478.39	0.1731	P	4.6
6	☐	500.000	850.707	1070003.10	0.3201	A	5.4
7	☐	1000.000	758.166	953959.02	0.2853	A	7.3
8	☐			89638.33	0.0283	P	8.6

$$y = 3.7596E-004 * x + 2.8324E-004$$

$$R = 0.8647$$

$$DL = 0.05591$$

Weight: <None>

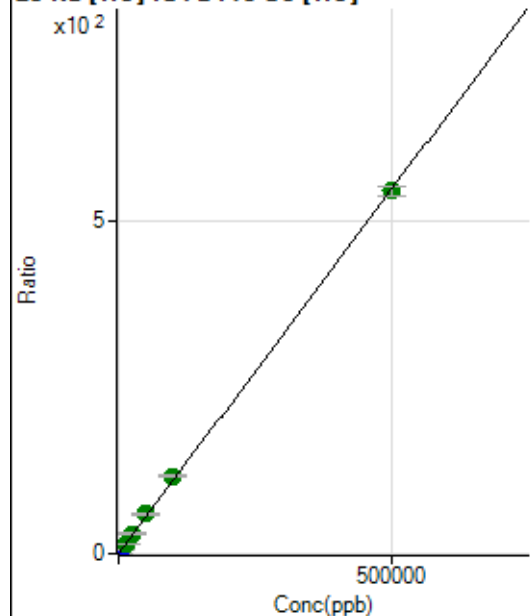
Min Conc: 0

12 C [No Gas] No available calibration points

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4236809.51		A	0.9
2	☐			4402933.17		A	1.7
3	☐			4518974.10		A	2.4
4	☐			4509207.53		A	2.9
5	☐			4533328.40		A	2.9
6	☐			4679170.46		A	2.9
7	☐			5089219.52		A	4.2
8	☐			4454011.08		A	1.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46791.81		P	0.2
2	☐			49698.32		P	0.1
3	☐			51256.61		P	1.4
4	☐			51432.19		P	1.9
5	☐			53093.93		P	2.8
6	☐			54869.71		P	0.5
7	☐			61203.20		P	1.3
8	☐			54459.79		P	1.1

23 Na [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23808.81	0.1476	P	2.3
2	☐	500.000	524.810	116418.52	0.7205	P	1.6
3	☐	5000.000	5542.153	1006889.79	6.1980	P	0.4
4	☐	12500.000	13762.799	2481147.95	15.1726	A	2.3
5	☐	25000.000	27520.764	4816528.75	30.1924	A	3.3
6	☐	50000.000	54453.865	9724471.48	59.5956	A	3.3
7	☐	100000.00	106702.87	19427450.43	116.6366	A	3.7
8	☐	500000.00	498050.98	88691955.45	543.8770	A	2.6

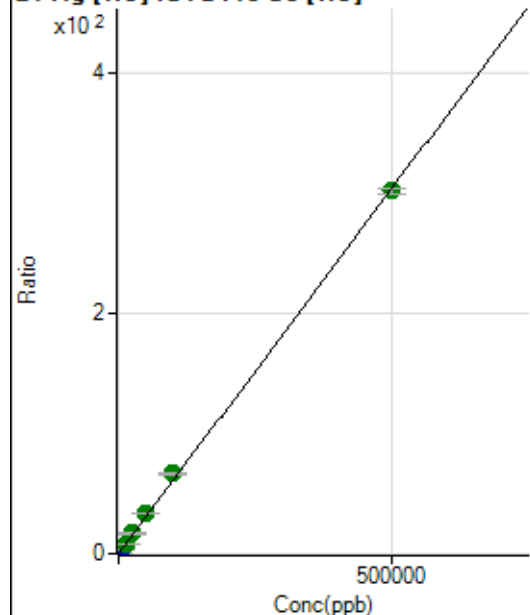
$$y = 0.0011 * x + 0.1476$$

$$R = 0.9999$$

$$DL = 9.274$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

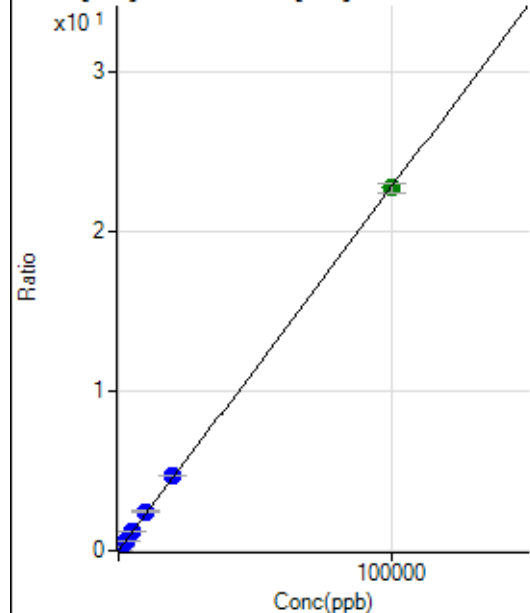
$$y = 6.0636\text{E-}004 * x + 0.0022$$

$$R = 0.9998$$

$$DL = 1.36$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

$$y = 2.2778\text{E-}004 * x + 4.4228\text{E-}004$$

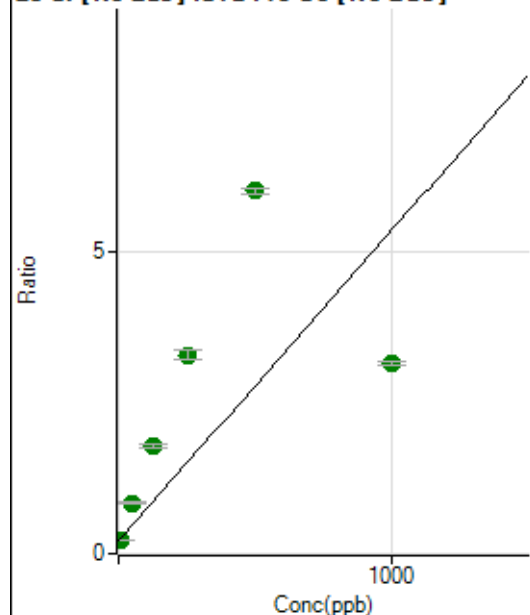
$$R = 1.0000$$

$$DL = 1.333$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	942952.25	0.2131	A	0.6
2	☐	10.000	3.860	1012400.06	0.2330	A	1.1
3	☐	50.000	122.182	3681760.80	0.8431	A	2.0
4	☐	125.000	306.160	7777880.99	1.7917	A	3.6
5	☐	250.000	599.574	14210733.48	3.3047	A	4.4
6	☐	500.000	1127.096	27099392.79	6.0248	A	1.3
7	☐	1000.000	572.866	14369317.85	3.1670	A	1.7
8	☐			1591816.07	0.3679	A	6.1

$$y = 0.0052 * x + 0.2131$$

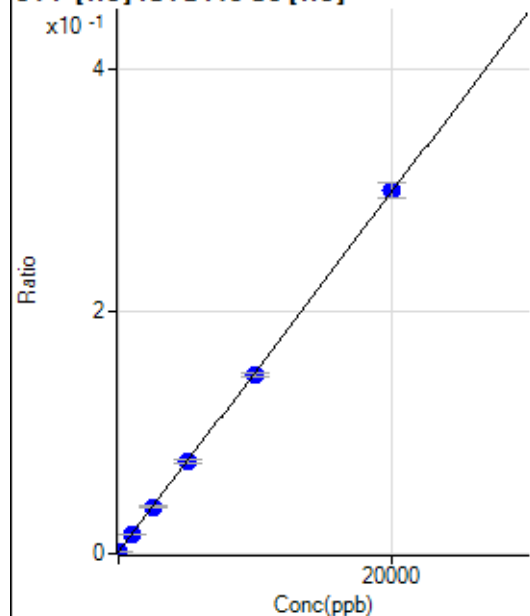
$$R = 0.6450$$

$$DL = 0.7256$$

Weight: <None>

Min Conc: 0

31 P [He] ISTD :45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-15.551	200.01	0.0012	P	12.7
2	☐	0.000	15.551	275.01	0.0017	P	8.6
3	☐	1000.000	968.101	2578.08	0.0159	P	1.4
4	☐	2500.000	2481.116	6273.74	0.0384	P	3.4
5	☐	5000.000	5013.495	12130.41	0.0760	P	3.3
6	☐	10000.000	9862.320	24176.31	0.1481	P	1.9
7	☐	20000.000	20069.422	49953.32	0.2999	P	4.2
8	☐			238.90	0.0015	P	31.1

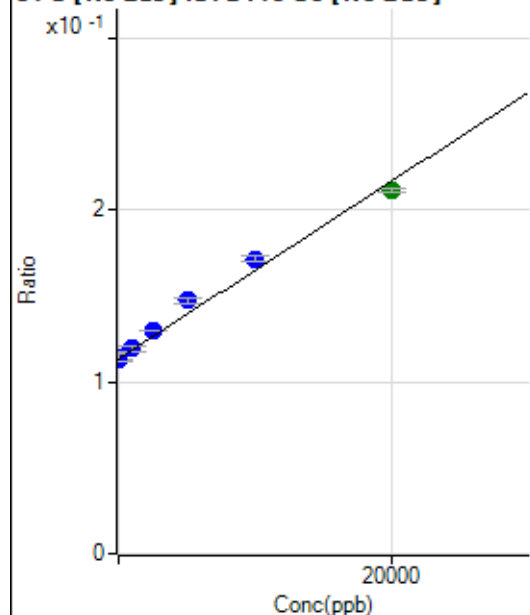
$$y = 1.4870E-005 * x + 0.0015$$

$$R = 1.0000$$

$$DL = 30.58$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-135.762	498697.00	0.1127	P	0.7
2	☐	0.000	135.762	495427.98	0.1141	P	4.1
3	☐	1000.000	1136.240	520463.37	0.1193	P	2.8
4	☐	2500.000	3248.566	565131.39	0.1302	P	0.2
5	☐	5000.000	6548.749	633391.59	0.1473	P	1.7
6	☐	10000.000	11230.440	771089.23	0.1715	P	1.9
7	☐	20000.000	18897.210	957737.46	0.2111	A	1.2
8	☐			453586.70	0.1048	P	0.7

$$y = 5.1690E-006 * x + 0.1134$$

R = 0.9929

DL = 1573

Weight: <None>

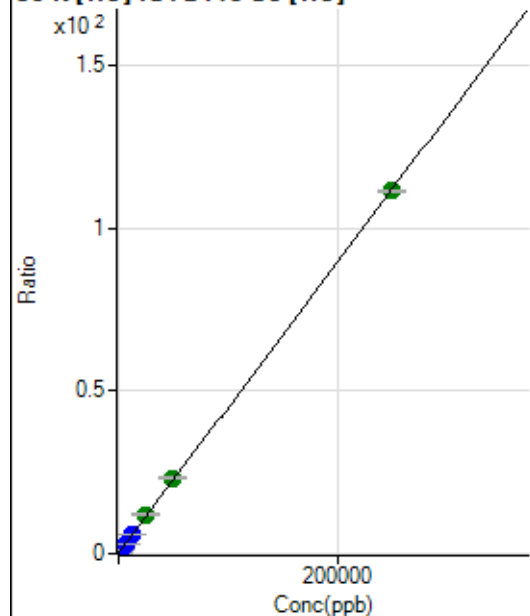
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			174121.24		P	1.0
2	☐			211347.81		P	1.0
3	☐			211893.06		P	2.2
4	☐			212770.98		P	1.7
5	☐			208450.71		P	0.5
6	☐			209085.30		P	0.7
7	☐			208566.40		P	0.6
8	☐			208834.28		P	1.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1294.53		P	0.4
2	☐			1580.68		P	5.1
3	☐			1552.91		P	5.4
4	☐			1527.90		P	6.5
5	☐			1483.45		P	5.9
6	☐			1536.23		P	6.3
7	☐			1477.89		P	21.7
8	☐			1652.92		P	3.9

39 K [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31123.04	0.1930	P	1.1
2	☐	500.000	487.533	66333.39	0.4106	P	0.7
3	☐	2500.000	2613.368	220859.51	1.3595	P	0.0
4	☐	6250.000	6442.449	501823.41	3.0687	P	1.7
5	☐	12500.000	12954.126	953375.72	5.9753	P	3.3
6	☐	25000.000	26691.471	1975729.34	12.1072	A	2.6
7	☐	50000.000	51722.010	3877779.56	23.2800	A	3.1
8	☐	250000.00	249457.82	18191669.85	111.5431	A	0.6

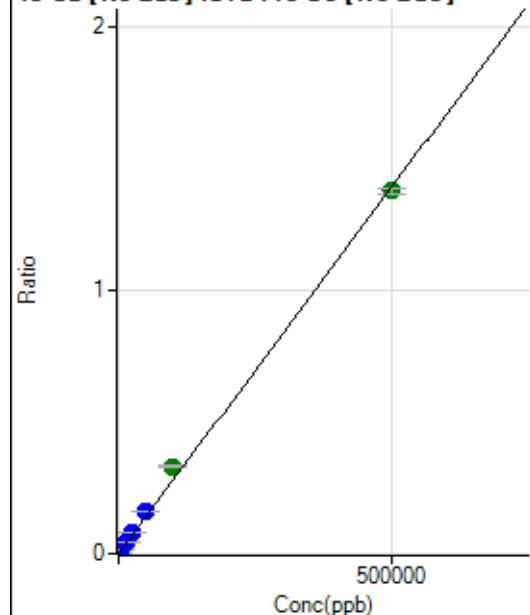
$$y = 4.4637\text{E-}004 * x + 0.1930$$

$$R = 1.0000$$

$$DL = 14.46$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	124.99	0.0000	P	3.9
2	☐	500.000	520.888	6421.06	0.0015	P	4.3
3	☐	5000.000	5877.010	71555.65	0.0164	P	1.7
4	☐	12500.000	14593.264	176531.58	0.0407	P	0.7
5	☐	25000.000	29610.958	354797.33	0.0825	P	2.4
6	☐	50000.000	57355.670	718566.47	0.1598	P	0.8
7	☐	100000.00	118943.94	1502973.51	0.3313	A	2.5
8	☐	500000.00	495183.97	5968611.17	1.3790	A	1.3

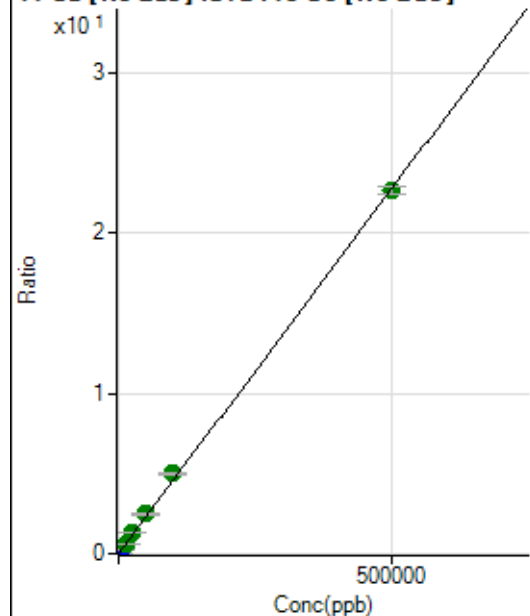
$$y = 2.7848\text{E-}006 * x + 2.8240\text{E-}005$$

$$R = 0.9992$$

$$DL = 1.192$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15046.89	0.0034	P	1.0
2	☐	500.000	511.354	115796.27	0.0267	P	2.3
3	☐	5000.000	5534.271	1113375.45	0.2551	P	2.1
4	☐	12500.000	13911.767	2761384.10	0.6362	A	0.7
5	☐	25000.000	28007.227	5494126.53	1.2773	A	2.4
6	☐	50000.000	54286.180	11122676.14	2.4725	A	1.6
7	☐	100000.00	109955.96	22706290.50	5.0046	A	2.0
8	☐	500000.00	497389.18	97919318.58	22.6263	A	2.1

$$y = 4.5483\text{E-}005 * x + 0.0034$$

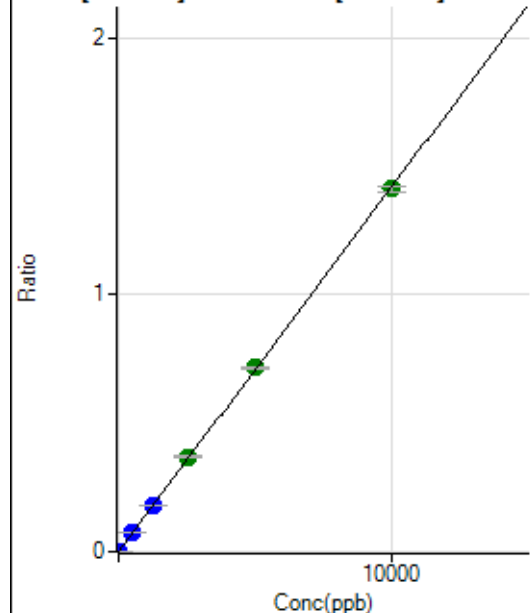
$$R = 0.9998$$

$$DL = 2.332$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	136.12	0.0000	P	25.2
2	☐	5.000	4.826	3108.76	0.0007	P	5.5
3	☐	500.000	519.733	322057.10	0.0738	P	2.1
4	☐	1250.000	1275.167	785733.08	0.1810	P	0.8
5	☐	2500.000	2596.608	1585341.28	0.3686	A	1.7
6	☐	5000.000	5038.301	3216718.04	0.7151	A	1.3
7	☐	10000.000	9952.565	6409367.07	1.4126	A	1.4
8	☐			894.50	0.0002	P	13.5

$$y = 1.4193E-004 * x + 3.0781E-005$$

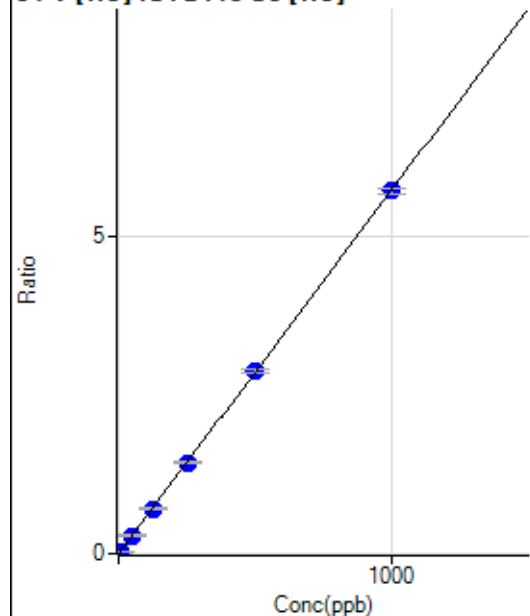
$$R = 0.9999$$

$$DL = 0.164$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.56	0.0000	P	34.9
2	☐	5.000	4.935	4579.66	0.0283	P	4.3
3	☐	50.000	49.892	46499.83	0.2862	P	1.5
4	☐	125.000	124.264	116570.60	0.7128	P	1.7
5	☐	250.000	251.203	229903.95	1.4410	P	2.1
6	☐	500.000	503.009	470876.49	2.8854	P	2.5
7	☐	1000.000	998.292	953930.59	5.7265	P	1.8
8	☐			315.56	0.0019	P	16.6

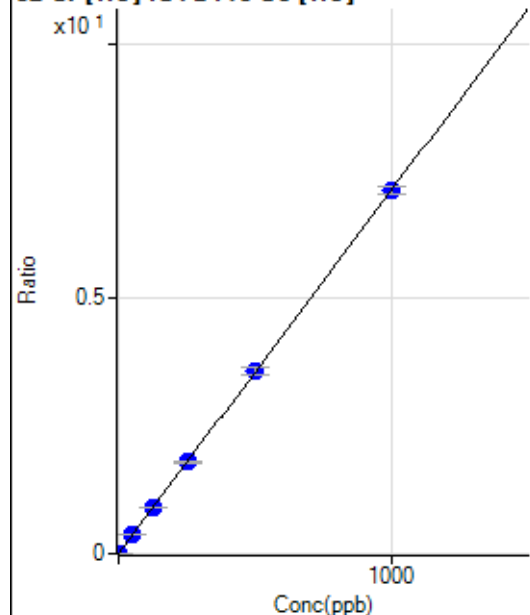
$$y = 0.0057 * x + 3.4474E-005$$

$$R = 1.0000$$

$$DL = 0.006296$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	527.79	0.0033	P	12.3
2	☐	2.000	2.019	2853.64	0.0177	P	4.2
3	☐	50.000	51.027	59617.11	0.3670	P	2.8
4	☐	125.000	125.781	147156.11	0.8999	P	2.6
5	☐	250.000	252.881	288130.30	1.8059	P	2.4
6	☐	500.000	502.142	584605.15	3.5827	P	3.5
7	☐	1000.000	998.060	1185676.54	7.1178	P	2.2
8	☐			8935.10	0.0548	P	5.4

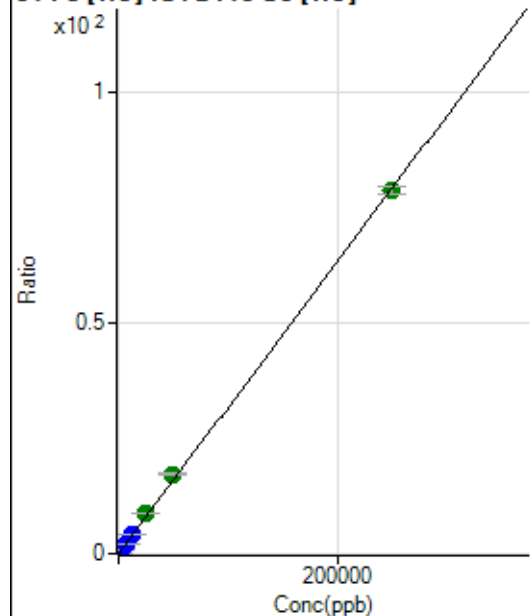
$$y = 0.0071 * x + 0.0033$$

$$R = 1.0000$$

$$DL = 0.1692$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	609.28	0.0038	P	15.1
2	☐	50.000	51.362	3230.05	0.0200	P	4.9
3	☐	2500.000	2657.873	136958.72	0.8430	P	2.0
4	☐	6250.000	6694.294	346278.23	2.1175	P	1.8
5	☐	12500.000	13296.318	670470.89	4.2022	P	2.8
6	☐	25000.000	27718.278	1428850.09	8.7560	A	2.6
7	☐	50000.000	54614.892	2873313.98	17.2488	A	2.1
8	☐	250000.00	248752.69	12809621.23	78.5492	A	2.0

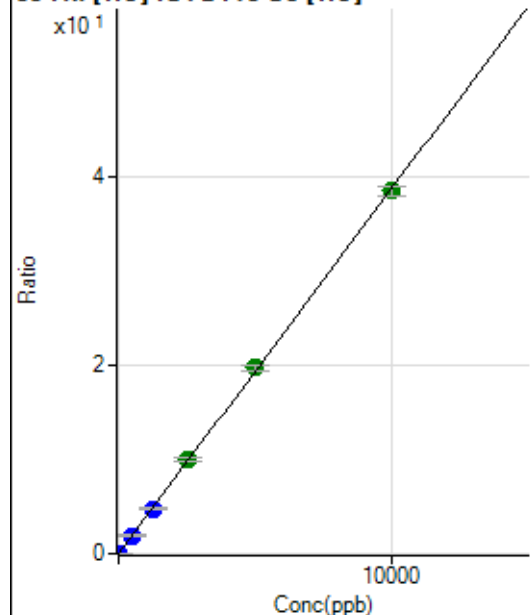
$$y = 3.1576E-004 * x + 0.0038$$

$$R = 0.9998$$

$$DL = 5.424$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	43.33	0.0003	P	20.8
2	☐	1.000	1.044	697.80	0.0043	P	7.6
3	☐	500.000	496.706	312954.80	1.9265	P	1.8
4	☐	1250.000	1226.416	777760.82	4.7562	P	2.1
5	☐	2500.000	2574.740	1593355.13	9.9849	A	4.8
6	☐	5000.000	5086.103	3218407.31	19.7238	A	3.4
7	☐	10000.000	9941.376	6421958.52	38.5522	A	2.5
8	☐			2852.56	0.0175	P	3.9

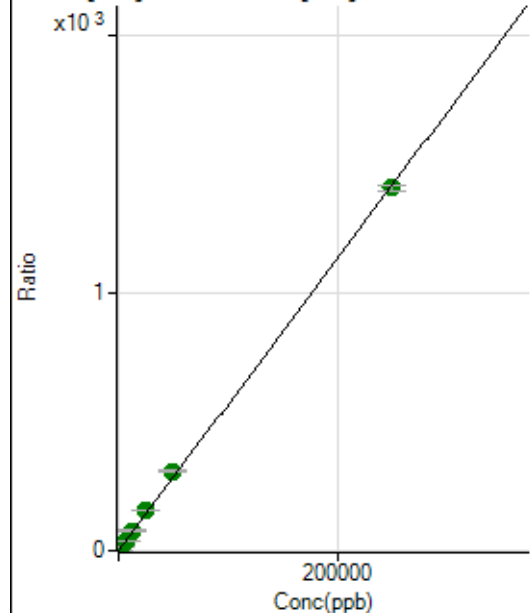
$$y = 0.0039 * x + 2.6883E-004$$

$$R = 0.9999$$

$$DL = 0.04329$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2428.03	0.0151	P	6.9
2	☐	50.000	51.667	49718.23	0.3077	P	1.3
3	☐	2500.000	2805.190	2583349.91	15.9038	A	2.3
4	☐	6250.000	6782.502	6284724.10	38.4316	A	1.7
5	☐	12500.000	13813.207	12485071.92	78.2540	A	3.3
6	☐	25000.000	27399.834	25327734.13	155.2096	A	2.7
7	☐	50000.000	54445.263	51375148.83	308.3968	A	2.0
8	☐	250000.00	248788.93	229807094.0	1,409.172	A	1.6

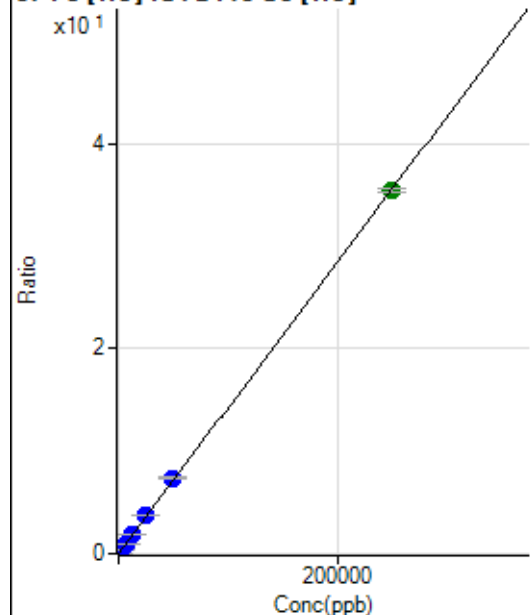
$$y = 0.0057 * x + 0.0151$$

$$R = 0.9998$$

$$DL = 0.5487$$

Weight: <None>

Min Conc: 0

57 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	235.19	0.0015	P	14.6
2	☐	50.000	49.835	1377.87	0.0085	P	19.6
3	☐	2500.000	2684.997	62133.62	0.3825	P	3.0
4	☐	6250.000	6594.954	153283.43	0.9374	P	1.6
5	☐	12500.000	13380.026	303176.25	1.9002	P	2.6
6	☐	25000.000	26500.612	613921.10	3.7622	P	3.0
7	☐	50000.000	52077.883	1231365.61	7.3919	P	2.0
8	☐	250000.00	249379.88	5771678.20	35.3912	A	1.1

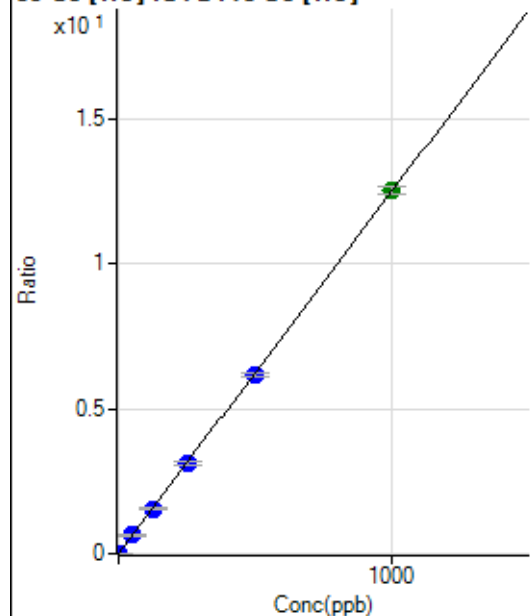
$$y = 1.4191\text{E-}004 * x + 0.0015$$

$$R = 1.0000$$

$$DL = 4.503$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	65.56	0.0004	P	10.9
2	☐	1.000	0.945	1969.05	0.0122	P	2.2
3	☐	50.000	50.544	102464.39	0.6307	P	3.4
4	☐	125.000	124.327	253614.36	1.5509	P	2.7
5	☐	250.000	249.551	496616.05	3.1126	P	2.4
6	☐	500.000	494.619	1006629.68	6.1689	P	3.0
7	☐	1000.000	1002.860	2083522.59	12.5072	A	2.1
8	☐			1609.00	0.0099	P	6.0

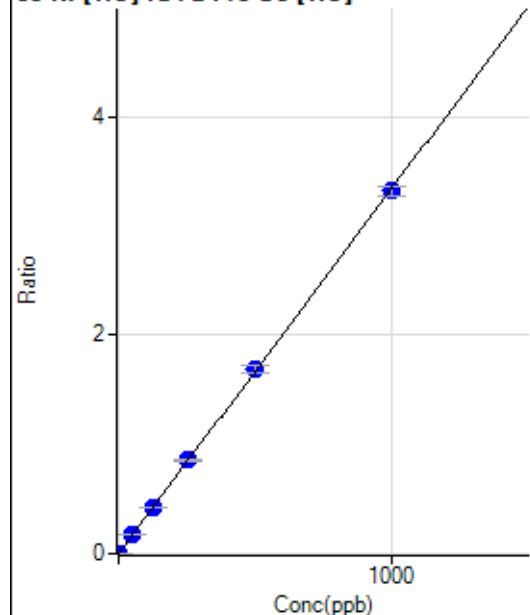
$$y = 0.0125 * x + 4.0617\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.01066$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	24.45	0.0002	P	27.7
2	☐	1.000	1.122	630.02	0.0039	P	8.3
3	☐	50.000	51.994	28260.40	0.1740	P	0.4
4	☐	125.000	127.324	69620.60	0.4258	P	1.7
5	☐	250.000	256.728	136946.59	0.8583	P	2.1
6	☐	500.000	506.954	276522.89	1.6948	P	4.3
7	☐	1000.000	994.451	553770.55	3.3244	P	2.6
8	☐			1152.28	0.0071	P	2.6

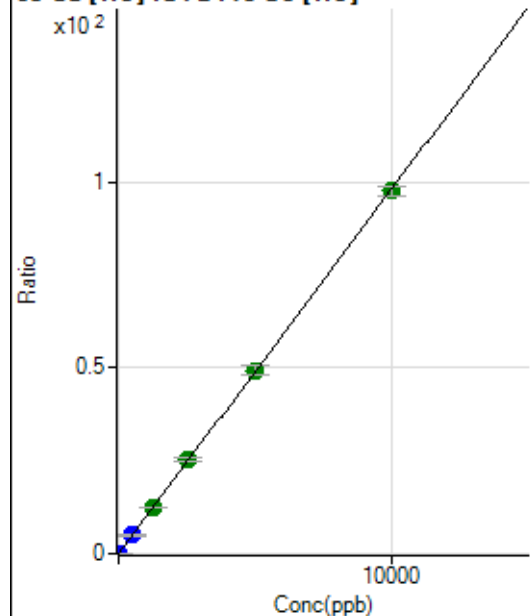
$$y = 0.0033 * x + 1.5133E-004$$

$$R = 0.9999$$

$$DL = 0.03768$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	461.12	0.0029	P	8.7
2	☐	2.000	1.931	3522.69	0.0218	P	1.8
3	☐	500.000	502.854	802128.08	4.9372	P	1.6
4	☐	1250.000	1278.875	2052611.55	12.5520	A	0.7
5	☐	2500.000	2585.662	4048548.76	25.3751	A	2.3
6	☐	5000.000	5037.923	8066754.05	49.4382	A	4.3
7	☐	10000.000	9955.871	16273827.40	97.6963	A	2.7
8	☐			2813.64	0.0173	P	7.3

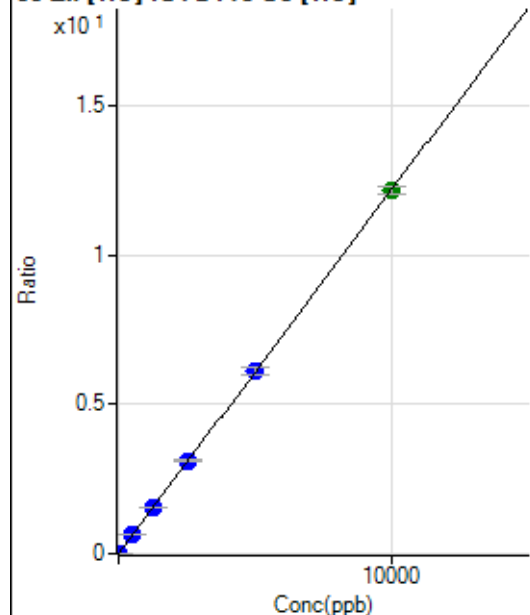
$$y = 0.0098 * x + 0.0029$$

$$R = 0.9999$$

$$DL = 0.07596$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	66.67	0.0004	P	42.9
2	☐	2.000	2.063	472.24	0.0029	P	6.4
3	☐	500.000	514.145	101739.26	0.6263	P	0.7
4	☐	1250.000	1274.169	253699.63	1.5514	P	1.2
5	☐	2500.000	2556.303	496522.65	3.1121	P	2.1
6	☐	5000.000	5020.622	997261.07	6.1119	P	3.9
7	☐	10000.000	9971.885	2022093.08	12.1389	A	2.2
8	☐			1337.85	0.0082	P	4.0

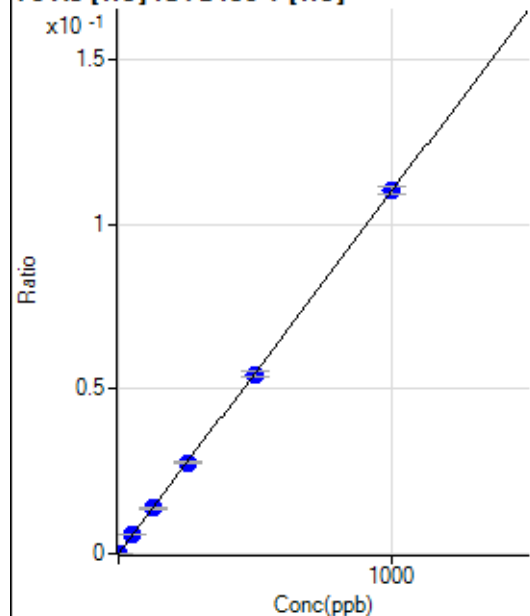
$$y = 0.0012 * x + 4.1269E-004$$

$$R = 1.0000$$

$$DL = 0.4367$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.00	0.0000	P	25.3
2	☐	1.000	1.056	130.34	0.0001	P	4.3
3	☐	50.000	51.387	6163.97	0.0057	P	2.3
4	☐	125.000	124.955	15207.36	0.0138	P	0.9
5	☐	250.000	251.738	30221.54	0.0277	P	2.6
6	☐	500.000	495.763	61079.18	0.0545	P	2.7
7	☐	1000.000	1001.620	125484.16	0.1102	P	1.9
8	☐			21.00	0.0000	P	26.9

$$y = 1.1002E-004 * x + 3.6367E-006$$

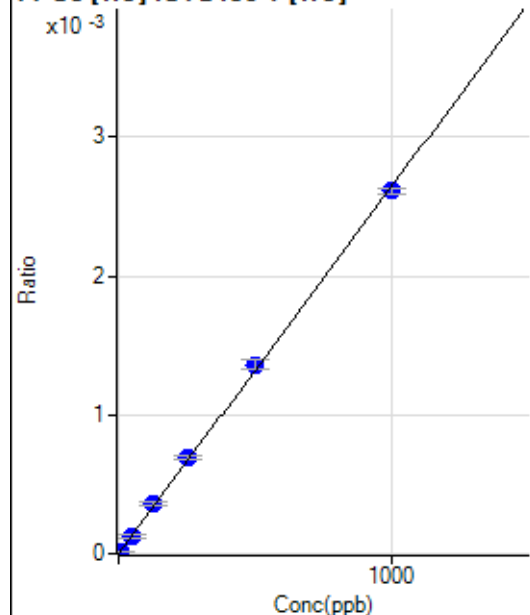
$$R = 1.0000$$

$$DL = 0.02504$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.413	15.56	0.0000	P	12.8
3	☐	50.000	47.871	137.78	0.0001	P	15.4
4	☐	125.000	134.145	392.23	0.0004	P	8.3
5	☐	250.000	262.744	757.81	0.0007	P	4.8
6	☐	500.000	514.343	1522.33	0.0014	P	5.0
7	☐	1000.000	988.604	2975.90	0.0026	P	1.6
8	☐			3.33	0.0000	P	173.

$$y = 2.6436\text{E-}006 * x + 0.0000\text{E}+000$$

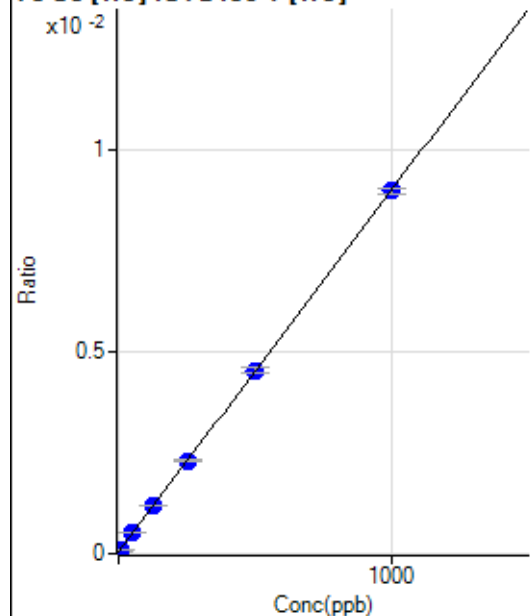
$$R = 0.9997$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.01	0.0000	P	12.1
2	☐	5.000	5.786	105.68	0.0001	P	19.2
3	☐	50.000	52.488	561.40	0.0005	P	2.5
4	☐	125.000	128.325	1320.53	0.0012	P	1.3
5	☐	250.000	251.644	2507.15	0.0023	P	3.0
6	☐	500.000	502.026	5082.77	0.0045	P	2.5
7	☐	1000.000	998.032	10224.75	0.0090	P	1.7
8	☐			64.68	0.0001	P	18.8

$$y = 8.9515\text{E-}006 * x + 4.5435\text{E-}005$$

$$R = 1.0000$$

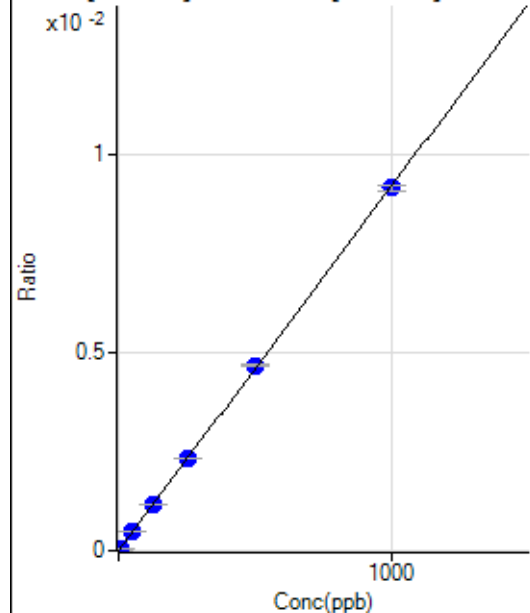
$$DL = 1.849$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21127.56		P	2.1
2	☐			21091.48		P	3.5
3	☐			20882.95		P	4.7
4	☐			21002.55		P	2.3
5	☐			21352.99		P	1.7
6	☐			22329.59		P	4.6
7	☐			22101.75		P	3.3
8	☐			22070.74		P	3.0

82 Se [No Gas] ISTD: 89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.75	0.0000	P	168.
2	☐	5.000	5.145	414.13	0.0000	P	4.9
3	☐	50.000	51.120	4112.28	0.0005	P	0.6
4	☐	125.000	127.319	10316.94	0.0012	P	1.5
5	☐	250.000	252.774	20568.81	0.0023	P	1.7
6	☐	500.000	507.759	41445.01	0.0047	P	1.3
7	☐	1000.000	995.080	83627.26	0.0092	P	1.7
8	☐			73.74	0.0000	P	40.1

$$y = 9.2008\text{E-}006 * x + 1.0030\text{E-}006$$

$$R = 1.0000$$

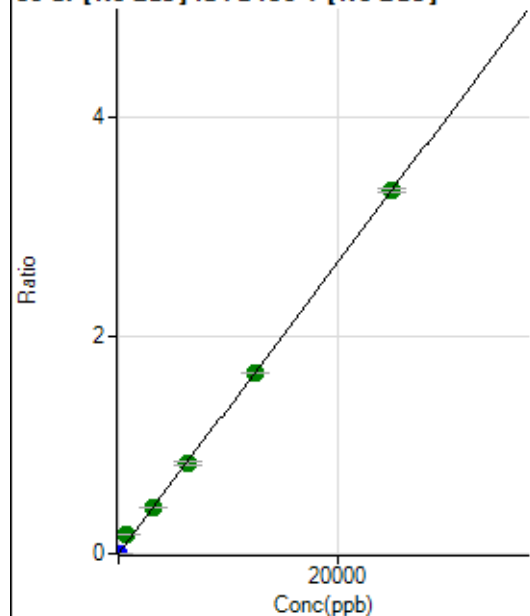
$$DL = 0.5514$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			370.38		P	3.2
2	☐			326.63		P	7.9
3	☐			341.63		P	7.8
4	☐			346.21		P	0.4
5	☐			362.46		P	2.7
6	☐			361.21		P	6.7
7	☐			366.21		P	4.7
8	☐			368.29		P	2.6

86 Sr [No Gas] ISTD : 89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	558.36	0.0001	P	10.9
2	☐	1.000	1.051	1741.83	0.0002	P	2.7
3	☐	625.000	1277.466	1483129.21	0.1700	A	1.0
4	☐	3125.000	3139.917	3676099.17	0.4177	A	1.1
5	☐	6250.000	6213.161	7305556.24	0.8265	A	2.7
6	☐	12500.000	12492.464	14738668.21	1.6618	A	0.3
7	☐	25000.000	24994.802	30366212.49	3.3248	A	1.2
8	☐			7921.95	0.0009	P	17.3

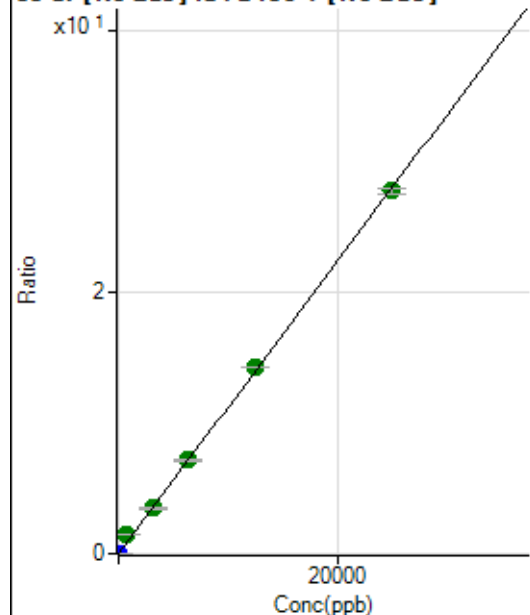
$$y = 1.3302E-004 * x + 6.3687E-005$$

$$R = 0.9997$$

$$DL = 0.1572$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	191.67	0.0000	P	34.0
2	☐	1.000	1.024	9995.51	0.0012	P	4.6
3	☐	625.000	1289.320	12582994.03	1.4423	A	1.0
4	☐	3125.000	3135.448	30851402.08	3.5073	A	3.4
5	☐	6250.000	6388.238	63166618.77	7.1459	A	2.2
6	☐	12500.000	12714.283	126140275.0	14.2222	A	0.1
7	☐	25000.000	24840.385	253772552.9	27.7865	A	1.6
8	☐			63856.96	0.0074	P	11.7

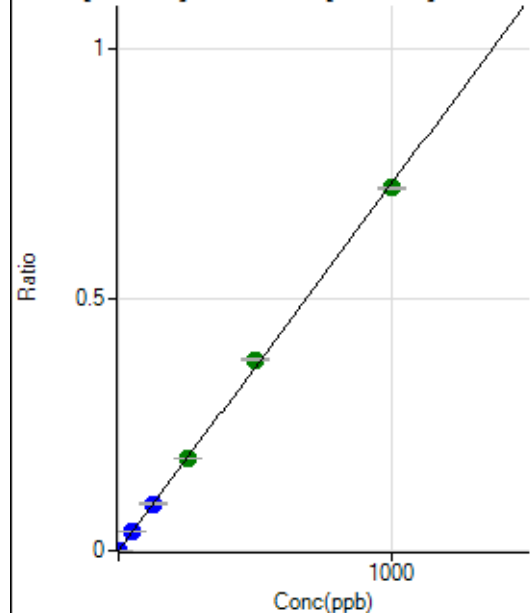
$$y = 0.0011 * x + 2.1847E-005$$

$$R = 0.9996$$

$$DL = 0.01993$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.57	0.0000	P	25.9
2	☐	1.000	0.980	6451.69	0.0008	P	1.8
3	☐	50.000	51.426	328000.88	0.0376	P	2.2
4	☐	125.000	127.105	817108.01	0.0929	P	2.8
5	☐	250.000	252.727	1632693.42	0.1846	A	0.6
6	☐	500.000	520.570	3372846.95	0.3803	A	1.5
7	☐	1000.000	988.699	6596679.10	0.7222	A	0.8
8	☐			1511.23	0.0002	P	9.9

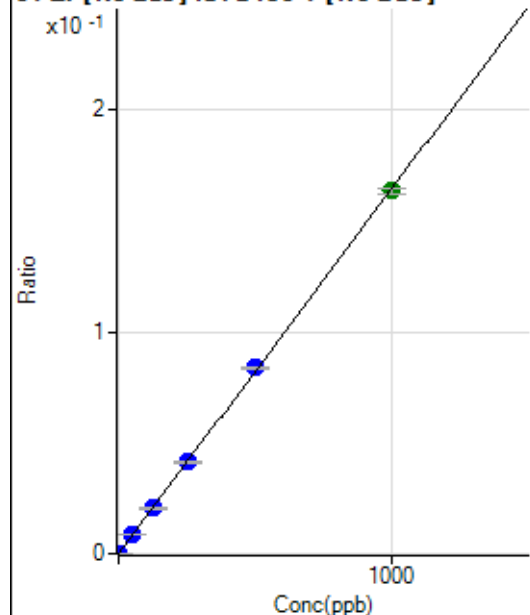
$$y = 7.3045E-004 * x + 3.7677E-005$$

$$R = 0.9997$$

$$DL = 0.04013$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	10.8
2	☐	1.000	1.053	1525.13	0.0002	P	4.8
3	☐	50.000	50.542	72489.12	0.0083	P	1.0
4	☐	125.000	124.226	179614.84	0.0204	P	2.4
5	☐	250.000	251.615	365502.17	0.0413	P	2.0
6	☐	500.000	509.290	742219.92	0.0837	P	1.0
7	☐	1000.000	995.021	1493124.49	0.1635	A	1.7
8	☐			297.23	0.0000	P	13.2

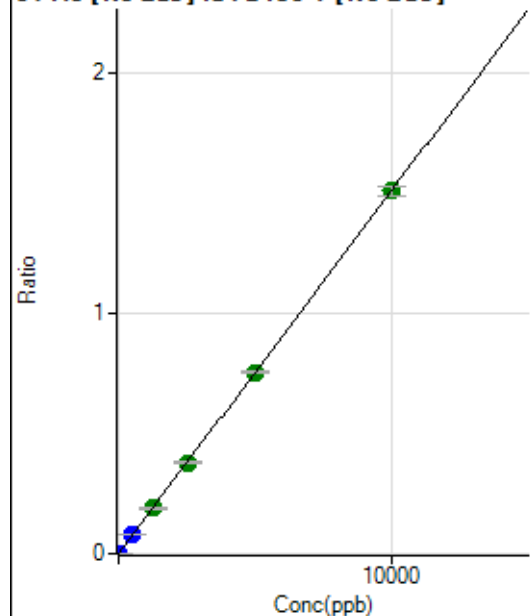
$$y = 1.6430E-004 * x + 5.0709E-006$$

$$R = 0.9999$$

$$DL = 0.01$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0000	P	3.5
2	☐	5.000	5.787	7613.40	0.0009	P	2.5
3	☐	500.000	513.223	675641.04	0.0775	P	1.8
4	☐	1250.000	1247.883	1657158.49	0.1883	A	2.2
5	☐	2500.000	2507.321	3344426.99	0.3783	A	2.0
6	☐	5000.000	4997.746	6688259.26	0.7541	A	1.2
7	☐	10000.000	9998.900	13777739.80	1.5087	A	2.4
8	☐			2625.33	0.0003	P	19.6

$$y = 1.5088E-004 * x + 1.5847E-005$$

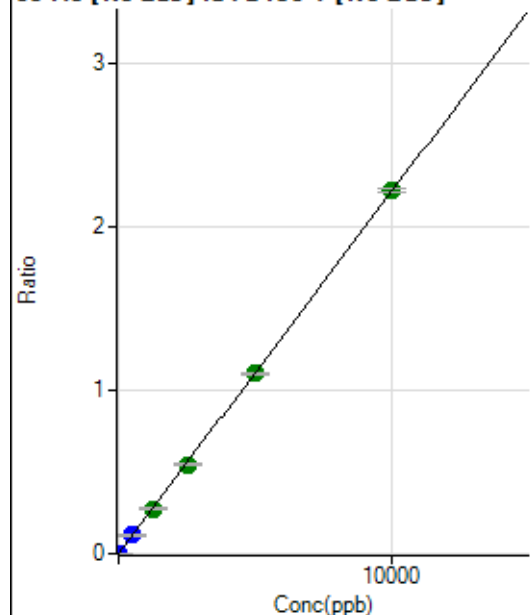
$$R = 1.0000$$

$$DL = 0.01116$$

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	91.4
2	☐	5.000	4.566	8664.05	0.0010	P	2.4
3	☐	500.000	505.381	975628.67	0.1118	P	0.5
4	☐	1250.000	1238.818	2411961.53	0.2741	A	1.6
5	☐	2500.000	2453.983	4799553.06	0.5430	A	2.3
6	☐	5000.000	4978.856	9770882.77	1.1016	A	0.7
7	☐	10000.000	10023.205	20255594.03	2.2178	A	1.0
8	☐			3397.74	0.0004	P	19.2

$$y = 2.2127E-004 * x + 1.5832E-006$$

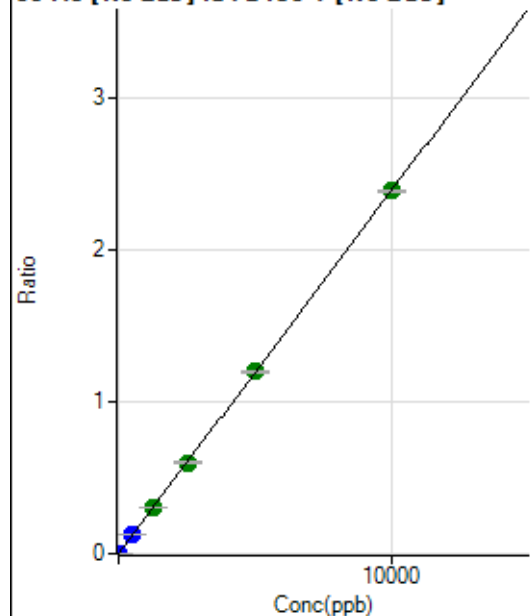
$$R = 1.0000$$

$$DL = 0.01961$$

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	44.0
2	☐	5.000	4.872	10034.46	0.0012	P	1.8
3	☐	500.000	512.741	1070460.56	0.1227	P	1.1
4	☐	1250.000	1269.888	2673867.27	0.3039	A	1.9
5	☐	2500.000	2506.695	5303448.47	0.5999	A	1.1
6	☐	5000.000	5005.954	10625554.14	1.1979	A	1.7
7	☐	10000.000	9992.226	21840046.84	2.3911	A	0.4
8	☐			6596.21	0.0008	P	11.0

$$y = 2.3930E-004 * x + 5.7037E-006$$

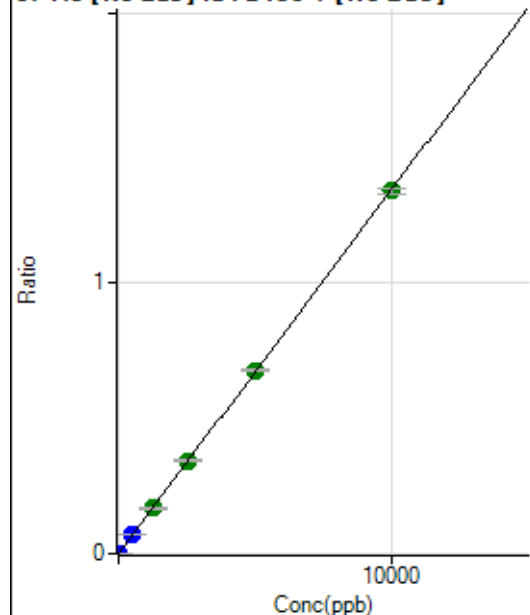
$$R = 1.0000$$

$$DL = 0.03144$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	91.5
2	☐	5.000	5.011	5787.47	0.0007	P	2.5
3	☐	500.000	515.881	605574.23	0.0694	P	0.6
4	☐	1250.000	1243.023	1472010.27	0.1672	A	0.7
5	☐	2500.000	2552.033	3035692.39	0.3434	A	1.4
6	☐	5000.000	5037.007	6010904.43	0.6777	A	0.9
7	☐	10000.000	9968.567	12250365.55	1.3412	A	1.5
8	☐			2078.00	0.0002	P	19.5

$$y = 1.3454\text{E-}004 * x + 1.5791\text{E-}006$$

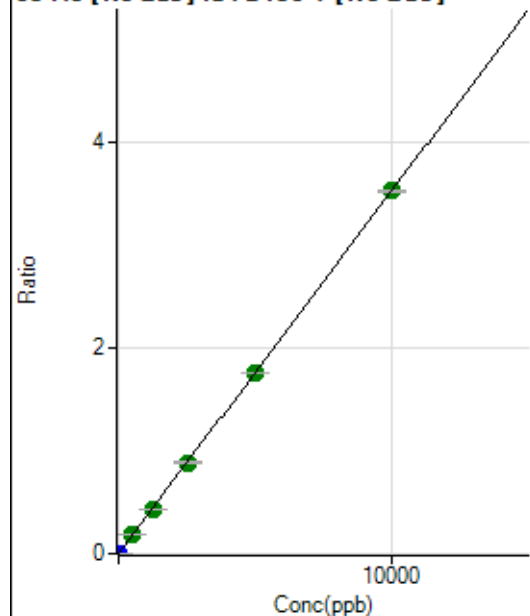
$$R = 1.0000$$

$$DL = 0.03223$$

Weight: <None>

Min Conc: 0

98 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	65.0
2	☐	5.000	4.799	14477.34	0.0017	P	5.5
3	☐	500.000	508.683	1561897.28	0.1790	A	1.4
4	☐	1250.000	1230.950	3812197.87	0.4332	A	1.8
5	☐	2500.000	2507.384	7799767.01	0.8825	A	2.9
6	☐	5000.000	4990.563	15578216.49	1.7565	A	0.4
7	☐	10000.000	10004.820	32161920.51	3.5212	A	0.8
8	☐			5495.76	0.0006	P	25.3

$$y = 3.5195\text{E-}004 * x + 2.2149\text{E-}006$$

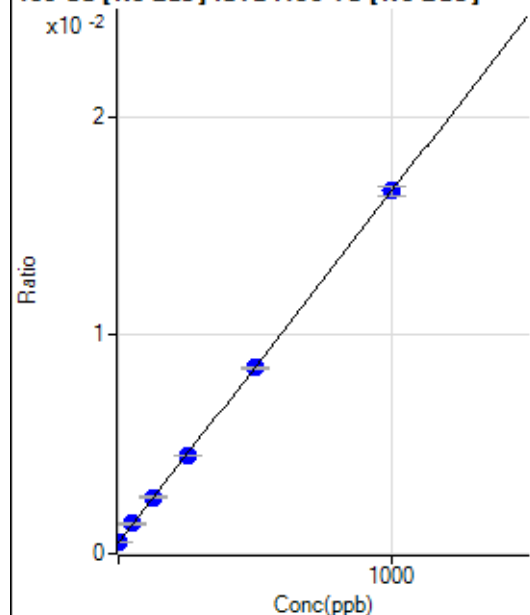
$$R = 1.0000$$

$$DL = 0.01227$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3094.88	0.0005	P	1.8
2	☐	1.000	2.508	3258.81	0.0005	P	2.4
3	☐	50.000	53.542	8172.07	0.0014	P	3.6
4	☐	125.000	128.565	15840.02	0.0026	P	2.8
5	☐	250.000	249.385	28360.37	0.0045	P	0.6
6	☐	500.000	497.558	54135.15	0.0085	P	1.3
7	☐	1000.000	1000.750	106662.14	0.0166	P	2.9
8	☐			3256.04	0.0005	P	6.6

$$y = 1.6097E-005 * x + 5.0322E-004$$

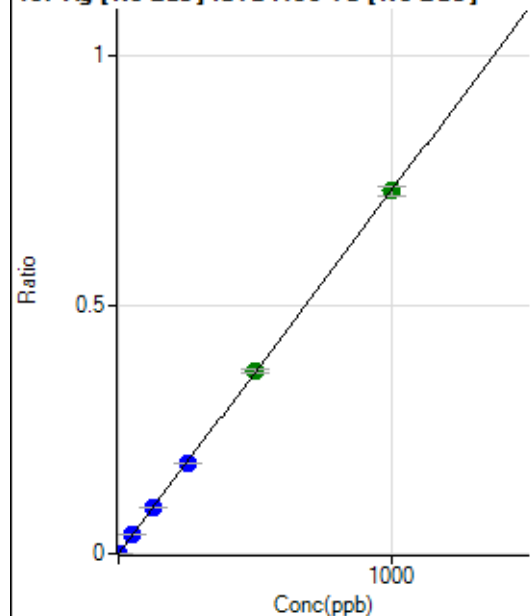
$$R = 1.0000$$

$$DL = 1.712$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	75.4
2	☐	1.000	1.044	4623.13	0.0008	P	3.8
3	☐	50.000	52.008	227174.90	0.0379	P	2.4
4	☐	125.000	125.736	564888.91	0.0917	P	1.1
5	☐	250.000	247.761	1134424.54	0.1807	P	1.1
6	☐	500.000	502.413	2329904.67	0.3664	A	2.7
7	☐	1000.000	999.161	4679119.81	0.7287	A	2.6
8	☐			2303.54	0.0004	P	37.0

$$y = 7.2932E-004 * x + 1.0004E-005$$

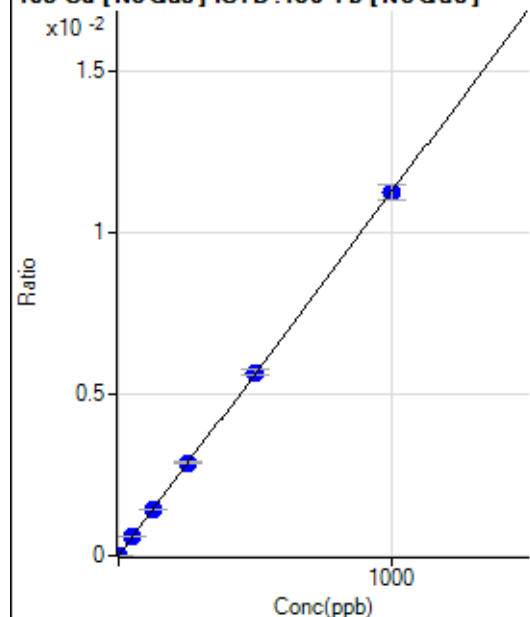
$$R = 1.0000$$

$$DL = 0.03103$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.83	0.0000	P	20.5
2	☐	1.000	0.913	81.94	0.0000	P	3.9
3	☐	50.000	53.442	3625.52	0.0006	P	3.0
4	☐	125.000	127.178	8843.22	0.0014	P	2.9
5	☐	250.000	254.558	18024.47	0.0029	P	1.8
6	☐	500.000	503.054	36056.98	0.0057	P	3.2
7	☐	1000.000	996.889	72121.29	0.0112	P	4.2
8	☐			30.56	0.0000	P	19.8

$$y = 1.1266\text{E-}005 * x + 3.3891\text{E-}006$$

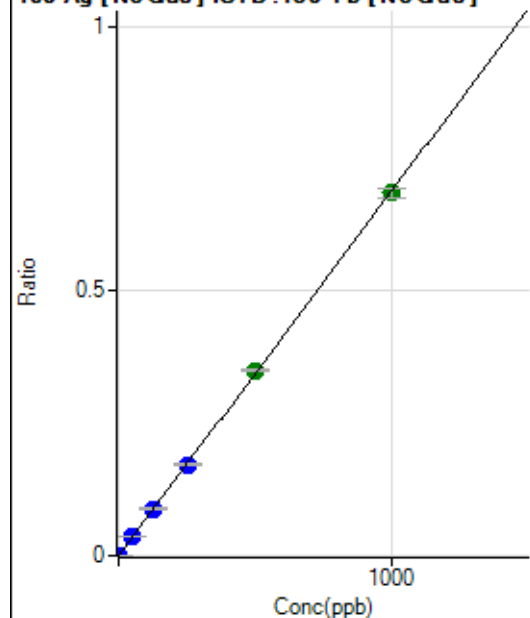
$$R = 1.0000$$

$$DL = 0.1846$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.55	0.0000	P	83.9
2	☐	1.000	1.054	4375.82	0.0007	P	6.1
3	☐	50.000	52.605	216935.51	0.0362	P	2.4
4	☐	125.000	127.702	541344.82	0.0879	P	3.1
5	☐	250.000	249.435	1078262.32	0.1718	P	1.7
6	☐	500.000	508.333	2225896.71	0.3500	A	1.7
7	☐	1000.000	995.507	4401614.21	0.6855	A	2.8
8	☐			1561.24	0.0003	P	8.4

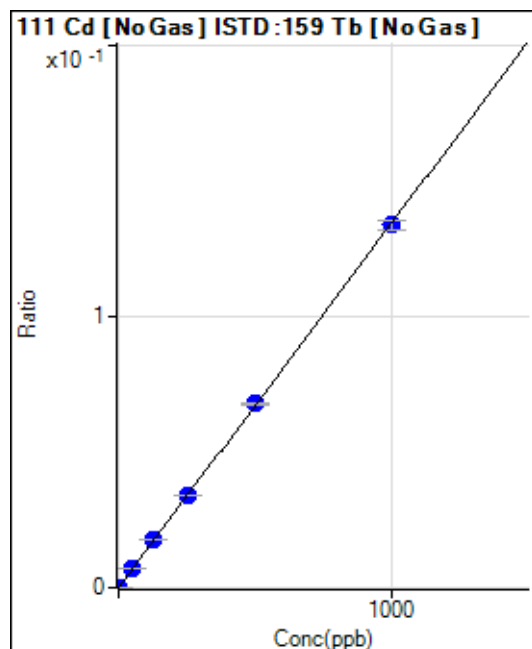
$$y = 6.8858\text{E-}004 * x + 4.9679\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01815$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	303.24	0.0000	P	1.7
2	☐	1.000	1.080	1164.39	0.0002	P	7.9
3	☐	50.000	53.164	43006.11	0.0072	P	0.5
4	☐	125.000	130.140	107796.40	0.0175	P	1.2
5	☐	250.000	253.367	213636.45	0.0340	P	1.7
6	☐	500.000	505.402	431376.13	0.0678	P	1.4
7	☐	1000.000	995.657	857756.15	0.1336	P	2.6
8	☐			568.11	0.0001	P	8.9

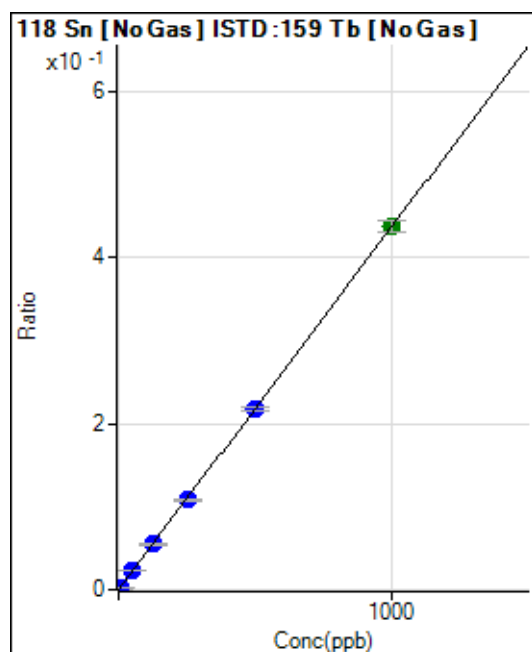
$$y = 1.3412\text{E-}004 * x + 4.9311\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.01838$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.68	0.0000	P	10.2
2	☐	5.000	4.990	13303.99	0.0022	P	2.7
3	☐	50.000	52.455	137536.01	0.0230	P	2.1
4	☐	125.000	126.711	341154.01	0.0554	P	3.7
5	☐	250.000	248.422	681939.74	0.1086	P	2.3
6	☐	500.000	498.907	1387098.29	0.2181	P	1.3
7	☐	1000.000	1000.605	2808476.93	0.4374	A	3.2
8	☐			1666.81	0.0003	P	6.0

$$y = 4.3711\text{E-}004 * x + 3.9327\text{E-}005$$

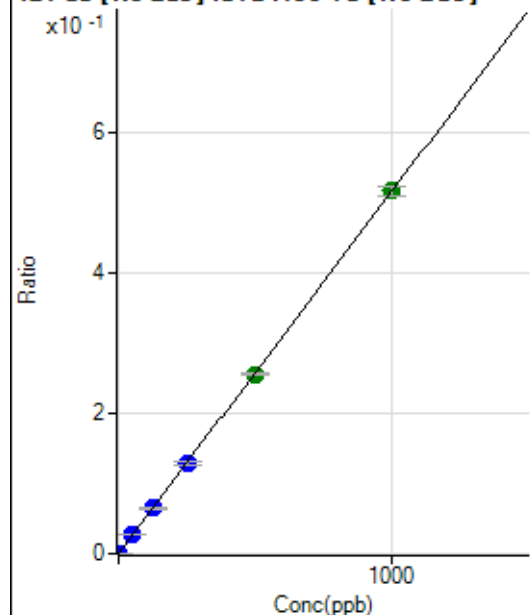
$$R = 1.0000$$

$$DL = 0.02762$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD : 159 Tb [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	99.3
2	☐	2.000	2.036	6307.18	0.0011	P	7.4
3	☐	50.000	51.517	159174.90	0.0266	P	3.2
4	☐	125.000	124.979	397139.45	0.0645	P	1.9
5	☐	250.000	249.777	809183.61	0.1289	P	2.3
6	☐	500.000	495.291	1625570.78	0.2556	A	1.2
7	☐	1000.000	1002.337	3321393.41	0.5173	A	2.4
8	☐			1627.92	0.0003	P	9.6

$$y = 5.1605E-004 * x + 2.6874E-006$$

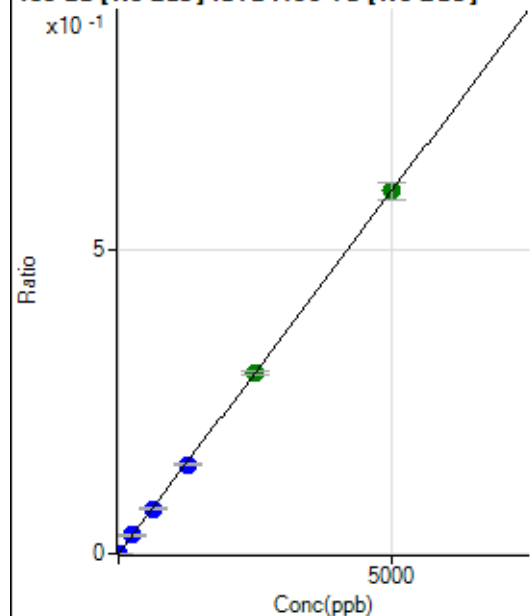
$$R = 1.0000$$

$$DL = 0.01552$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD : 159 Tb [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	124.
2	☐	10.000	9.715	6968.66	0.0012	P	4.2
3	☐	250.000	253.870	181694.88	0.0303	P	2.2
4	☐	625.000	616.806	453768.11	0.0737	P	3.3
5	☐	1250.000	1232.854	924970.52	0.1473	P	0.4
6	☐	2500.000	2500.862	1900652.80	0.2989	A	1.8
7	☐	5000.000	5004.687	3839584.94	0.5981	A	4.9
8	☐			2255.81	0.0004	P	4.9

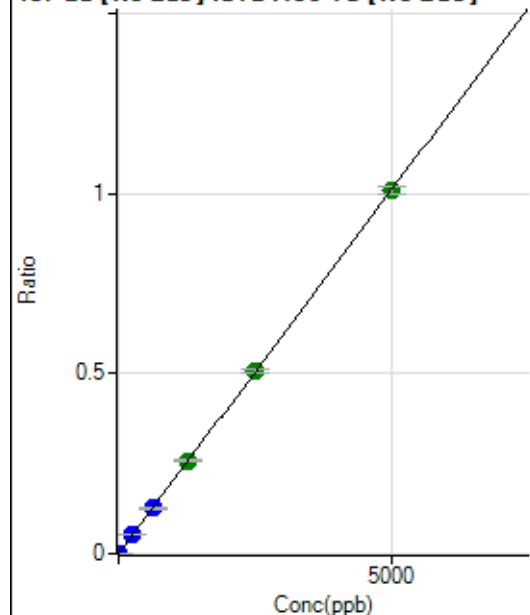
$$y = 1.1951E-004 * x + 2.2716E-006$$

$$R = 1.0000$$

$$DL = 0.07112$$

Weight: <None>

Min Conc: 0

137 Ba [No Gas] ISTD : 159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	41.9
2	☐	10.000	9.807	11872.18	0.0020	P	3.2
3	☐	250.000	257.965	311745.14	0.0521	P	3.1
4	☐	625.000	626.271	778532.42	0.1264	P	1.6
5	☐	1250.000	1273.073	1613303.74	0.2570	A	2.0
6	☐	2500.000	2512.936	3226075.51	0.5072	A	2.9
7	☐	5000.000	4987.207	6465160.39	1.0067	A	2.0
8	☐			3842.32	0.0006	P	2.6

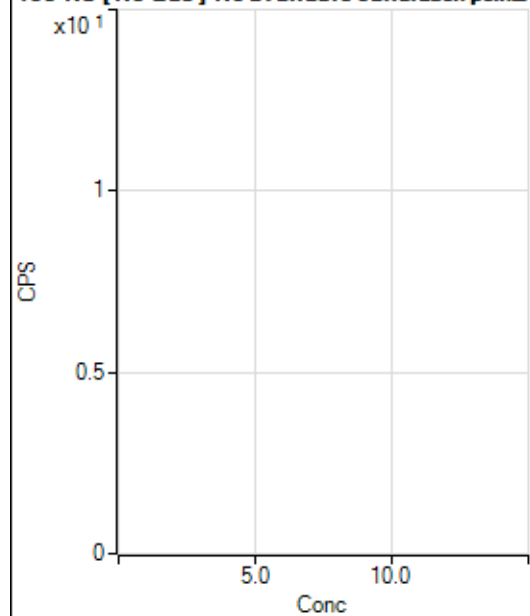
$$y = 2.0185E-004 * x + 1.7999E-006$$

$$R = 1.0000$$

$$DL = 0.0112$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4.45		P	86.6
2	☐			6.67		P	100.
3	☐			26.67		P	50.0
4	☐			73.33		P	56.8
5	☐			104.45		P	16.1
6	☐			195.56		P	37.7
7	☐			402.24		P	11.6
8	☐			17.78		P	21.7

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			5.55		P	69.3
4	☐			2.22		P	86.6
5	☐			7.78		P	24.7
6	☐			16.67		P	20.0
7	☐			23.33		P	28.6
8	☐			5.56		P	91.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			8.33		P	100.
3	☐			11.11		P	114.
4	☐			44.45		P	39.0
5	☐			72.23		P	37.1
6	☐			108.34		P	13.3
7	☐			200.01		P	25.3
8	☐			733.38		P	8.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			3.33		P	100.
3	☐			4.45		P	86.6
4	☐			21.11		P	18.2
5	☐			30.00		P	38.5
6	☐			51.11		P	27.2
7	☐			116.67		P	20.0
8	☐			340.00		P	1.7

160 Gd [No Gas] Noavailable calibration poin...

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	25.0
2	☐			44.44		P	39.0
3	☐			25.00		P	33.3
4	☐			75.00		P	29.4
5	☐			83.34		P	43.6
6	☐			163.89		P	43.2
7	☐			208.34		P	6.9
8	☐			738.93		P	9.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			105.56		P	32.3
2	☐			95.55		P	20.4
3	☐			112.22		P	7.5
4	☐			77.78		P	6.5
5	☐			118.89		P	11.7
6	☐			145.56		P	14.0
7	☐			174.45		P	12.1
8	☐			454.46		P	10.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	34.6
2	☐			44.44		P	75.8
3	☐			36.11		P	48.0
4	☐			50.00		P	33.3
5	☐			50.00		P	16.7
6	☐			91.67		P	39.6
7	☐			47.22		P	83.4
8	☐			80.56		P	33.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	10.2
2	☐			10.00		P	33.3
3	☐			28.89		P	35.2
4	☐			25.56		P	7.5
5	☐			27.78		P	30.2
6	☐			31.11		P	22.3
7	☐			33.33		P	36.1
8	☐			37.78		P	20.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	41.7
2	☐			30.55		P	68.6
3	☐			61.11		P	55.1
4	☐			33.33		P	66.1
5	☐			66.67		P	45.1
6	☐			58.33		P	37.8
7	☐			116.67		P	12.4
8	☐			213.90		P	19.6

172 Yb [He] No available calibration points

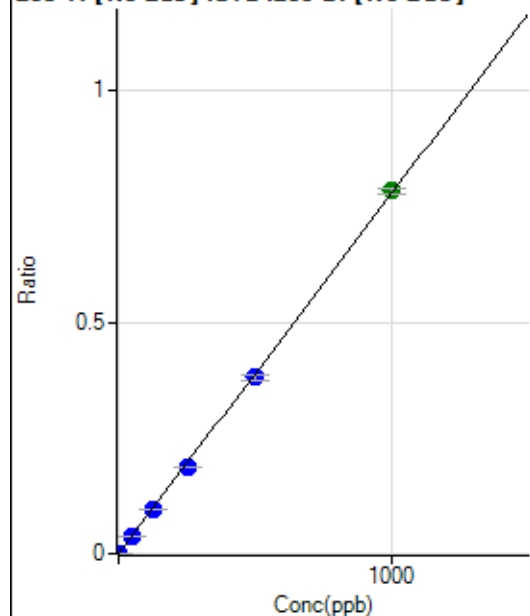
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	20.0
2	☐			18.52		P	105.
3	☐			14.82		P	21.7
4	☐			25.92		P	24.7
5	☐			24.07		P	48.0
6	☐			42.59		P	19.9
7	☐			55.56		P	17.3
8	☐			142.59		P	27.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			866.72		P	10.9
2	☐			955.62		P	3.9
3	☐			1691.82		P	7.9
4	☐			2586.43		P	5.6
5	☐			3897.92		P	5.3
6	☐			7121.57		P	2.6
7	☐			12942.86		P	2.5
8	☐			1158.42		P	13.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6034.81		P	0.2
2	☐			5999.62		P	1.2
3	☐			6366.45		P	1.8
4	☐			7027.91		P	1.1
5	☐			7318.82		P	4.2
6	☐			9601.82		P	3.3
7	☐			12526.51		P	0.9
8	☐			6455.41		P	2.6

203 Tl [No Gas] ISTD :209 Bi [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.23	0.0000	P	26.4
2	☐	1.000	0.915	2625.34	0.0007	P	3.8
3	☐	50.000	49.167	136093.25	0.0382	P	2.9
4	☐	125.000	122.120	338810.95	0.0949	P	3.1
5	☐	250.000	239.911	684916.52	0.1864	P	1.8
6	☐	500.000	490.375	1406267.52	0.3810	P	3.0
7	☐	1000.000	1007.736	2914295.79	0.7829	A	1.3
8	☐			650.03	0.0002	P	20.5

$$y = 7.7687\text{E-}004 * x + 1.9704\text{E-}005$$

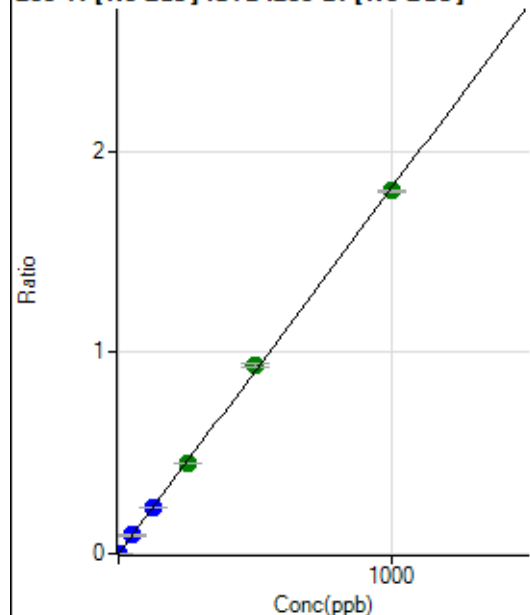
$$R = 0.9999$$

$$DL = 0.02007$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	147.23	0.0000	P	18.1
2	☐	1.000	0.992	6612.99	0.0018	P	2.0
3	☐	50.000	50.480	326338.52	0.0916	P	2.7
4	☐	125.000	124.914	809451.33	0.2267	P	1.4
5	☐	250.000	247.572	1651787.20	0.4492	A	1.6
6	☐	500.000	515.913	3456114.88	0.9361	A	1.4
7	☐	1000.000	992.637	6704781.10	1.8011	A	0.8
8	☐			1400.12	0.0004	P	8.3

$$y = 0.0018 * x + 4.0230E-005$$

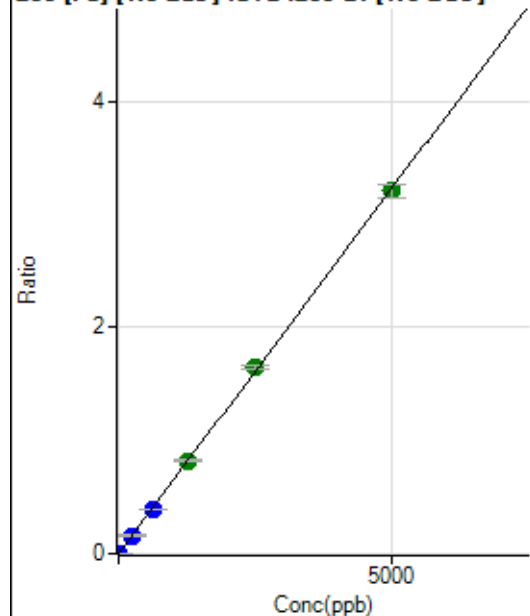
$$R = 0.9998$$

$$DL = 0.01202$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	307.42	0.0001	P	20.6
2	☐	1.000	0.917	2428.05	0.0007	P	7.9
3	☐	250.000	249.126	572628.72	0.1608	P	3.4
4	☐	625.000	612.312	1410947.90	0.3951	P	1.8
5	☐	1250.000	1270.587	3014083.78	0.8198	A	1.6
6	☐	2500.000	2550.711	6075448.52	1.6457	A	2.0
7	☐	5000.000	4971.127	11940451.31	3.2073	A	3.4
8	☐			2279.90	0.0007	P	11.0

$$y = 6.4517E-004 * x + 8.3851E-005$$

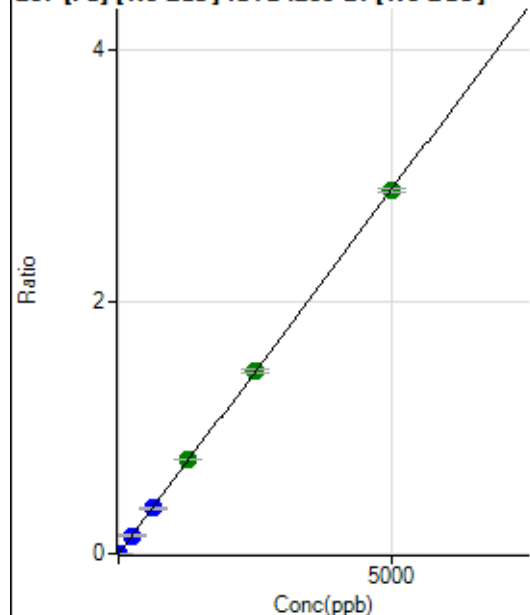
$$R = 0.9999$$

$$DL = 0.08038$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.71	0.0001	P	8.9
2	☐	1.000	0.934	2189.12	0.0006	P	4.6
3	☐	250.000	250.209	515004.16	0.1447	P	4.2
4	☐	625.000	621.578	1282946.14	0.3593	P	2.1
5	☐	1250.000	1288.345	2737115.92	0.7446	A	0.4
6	☐	2500.000	2517.938	5372284.26	1.4552	A	2.3
7	☐	5000.000	4981.862	10717211.81	2.8792	A	0.9
8	☐			2046.50	0.0006	P	11.8

$$y = 5.7792\text{E-}004 * x + 6.9258\text{E-}005$$

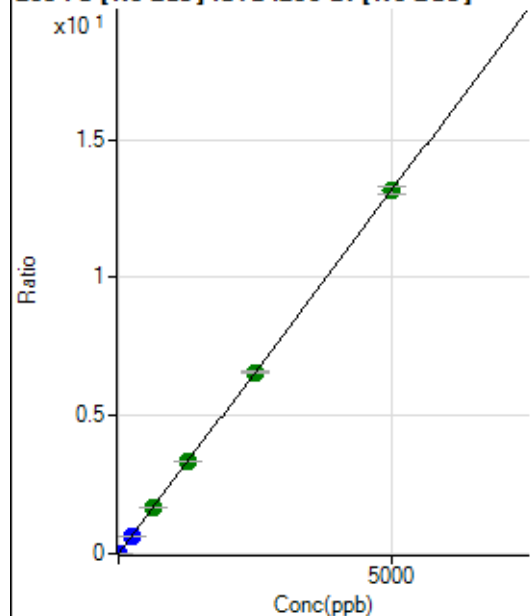
$$R = 1.0000$$

$$DL = 0.03198$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1203.75	0.0003	P	3.4
2	☐	1.000	0.921	9890.57	0.0028	P	4.2
3	☐	250.000	247.196	2316602.56	0.6506	P	3.3
4	☐	625.000	630.600	5924388.35	1.6591	A	1.4
5	☐	1250.000	1274.681	12326416.28	3.3534	A	0.4
6	☐	2500.000	2494.691	24230274.96	6.5627	A	1.1
7	☐	5000.000	4995.924	48921296.58	13.1422	A	2.0
8	☐			9281.15	0.0028	P	11.0

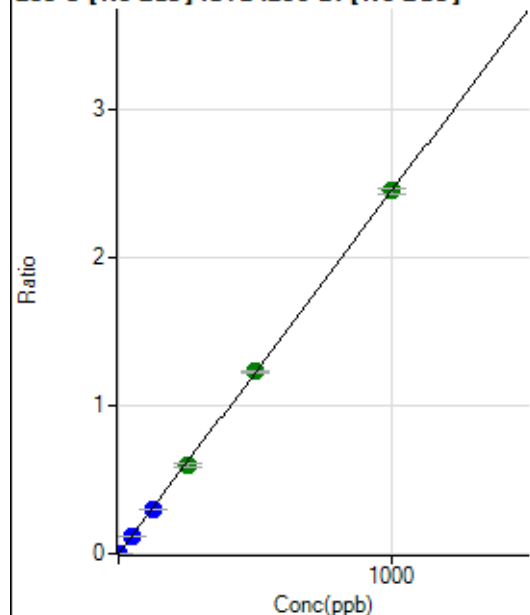
$$y = 0.0026 * x + 3.2851\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.0126$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.56	0.0000	P	96.6
2	☐	1.000	0.901	7958.30	0.0022	P	3.4
3	☐	50.000	49.082	427866.98	0.1202	P	3.7
4	☐	125.000	121.614	1063171.10	0.2978	P	2.2
5	☐	250.000	243.804	2192948.33	0.5969	A	2.6
6	☐	500.000	502.333	4540495.76	1.2298	A	1.4
7	☐	1000.000	1000.852	9119696.64	2.4503	A	1.5
8	☐			544.47	0.0002	P	35.7

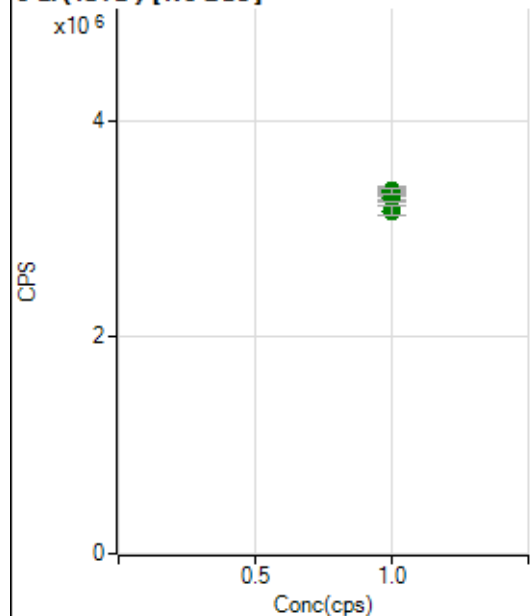
$$y = 0.0024 * x + 8.3527E-006$$

$$R = 1.0000$$

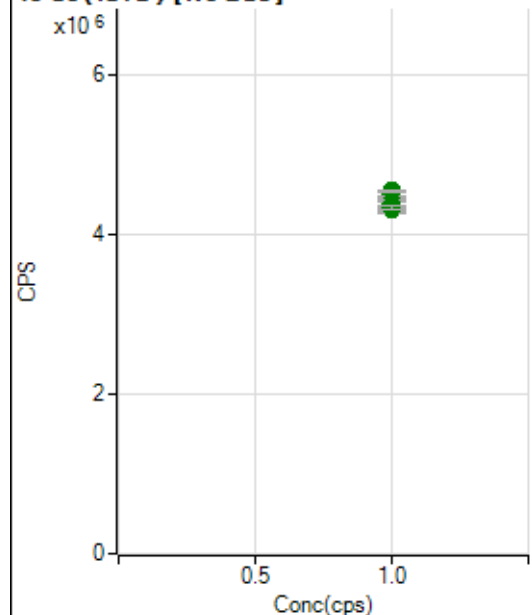
$$DL = 0.009885$$

Weight: <None>

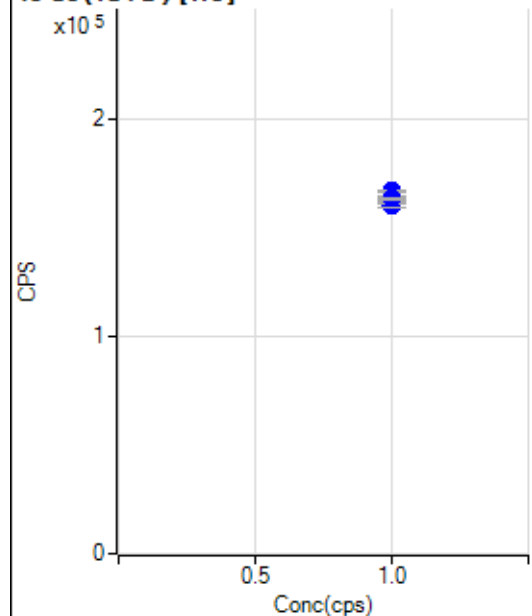
Min Conc: 0

6 Li (ISTD) [No Gas]

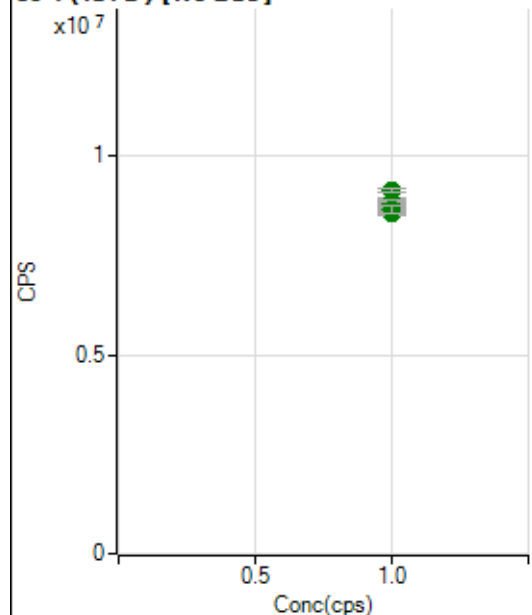
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3351357.83		A	0.5
2	☐	1.000		3308396.35		A	2.1
3	☐	1.000		3323048.43		A	3.1
4	☐	1.000		3350697.08		A	1.2
5	☐	1.000		3277934.15		A	1.8
6	☐	1.000		3345271.61		A	2.6
7	☐	1.000		3346050.68		A	1.6
8	☐	1.000		3168577.61		A	2.5

45 Sc (ISTD) [No Gas]

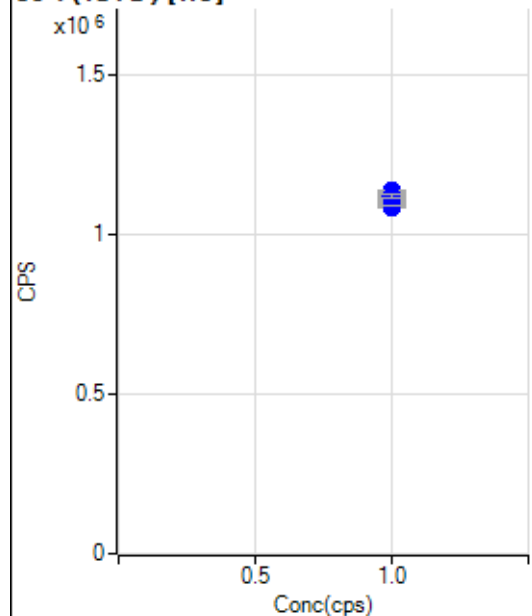
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4425162.99		A	0.7
2	☐	1.000		4345899.66		A	3.4
3	☐	1.000		4365749.42		A	2.6
4	☐	1.000		4340758.23		A	0.2
5	☐	1.000		4302265.70		A	1.7
6	☐	1.000		4498330.66		A	1.6
7	☐	1.000		4537529.59		A	0.7
8	☐	1.000		4328379.73		A	1.2

45 Sc (ISTD) [He]

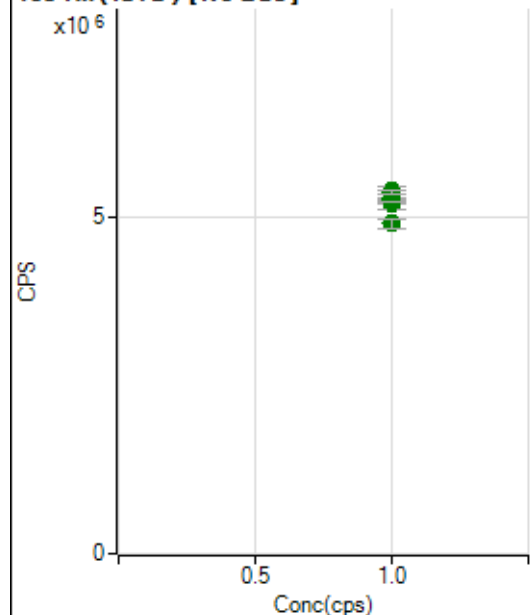
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		161299.15		P	0.9
2	☐	1.000		161564.96		P	1.0
3	☐	1.000		162458.92		P	1.4
4	☐	1.000		163532.42		P	0.7
5	☐	1.000		159541.57		P	0.9
6	☐	1.000		163219.55		P	1.3
7	☐	1.000		166598.77		P	0.8
8	☐	1.000		163087.68		P	0.5

89 Y (ISTD) [No Gas]

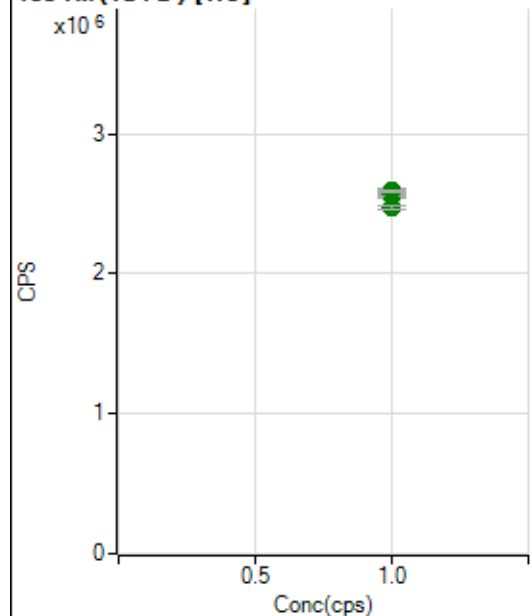
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8765004.10		A	0.6
2	☐	1.000		8563840.64		A	1.2
3	☐	1.000		8724988.48		A	1.7
4	☐	1.000		8802037.30		A	2.9
5	☐	1.000		8842814.87		A	2.7
6	☐	1.000		8869256.26		A	0.7
7	☐	1.000		9133954.59		A	1.1
8	☐	1.000		8665335.22		A	2.4

89 Y (ISTD) [He]

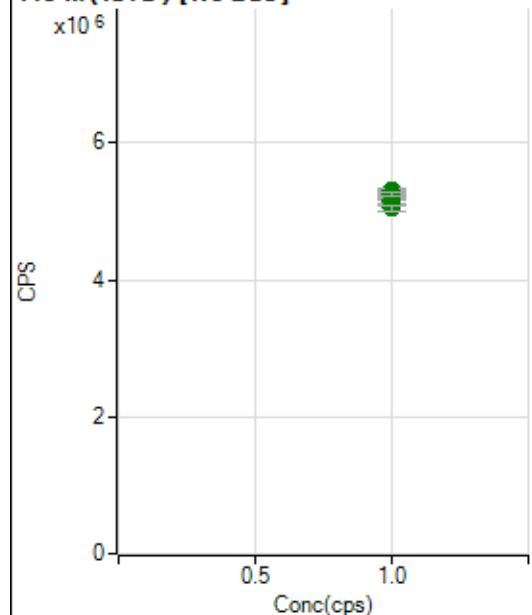
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1100287.60		P	0.4
2	☐	1.000		1087512.86		P	0.7
3	☐	1.000		1089649.79		P	0.9
4	☐	1.000		1105894.94		P	0.6
5	☐	1.000		1091033.58		P	0.2
6	☐	1.000		1119824.70		P	0.7
7	☐	1.000		1138594.08		P	0.8
8	☐	1.000		1122657.47		P	0.9

103 Rh (ISTD) [No Gas]

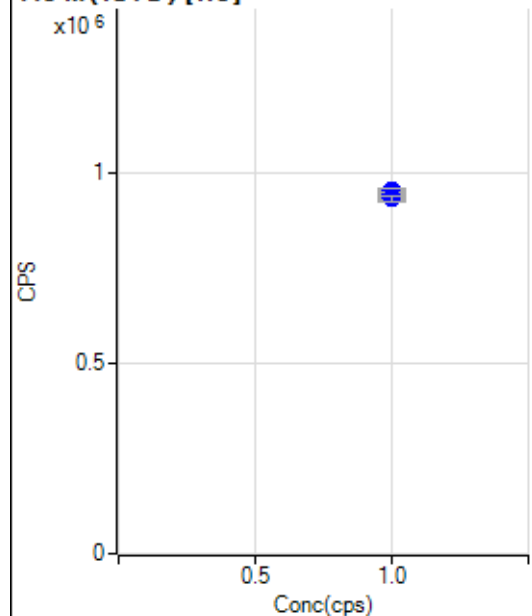
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5383892.70		A	2.2
2	☐	1.000		5253915.79		A	1.1
3	☐	1.000		5187712.14		A	3.2
4	☐	1.000		5213106.10		A	1.1
5	☐	1.000		5252780.41		A	1.1
6	☐	1.000		5289470.91		A	2.0
7	☐	1.000		5358812.40		A	1.1
8	☐	1.000		4894057.40		A	2.9

103 Rh (ISTD) [He]

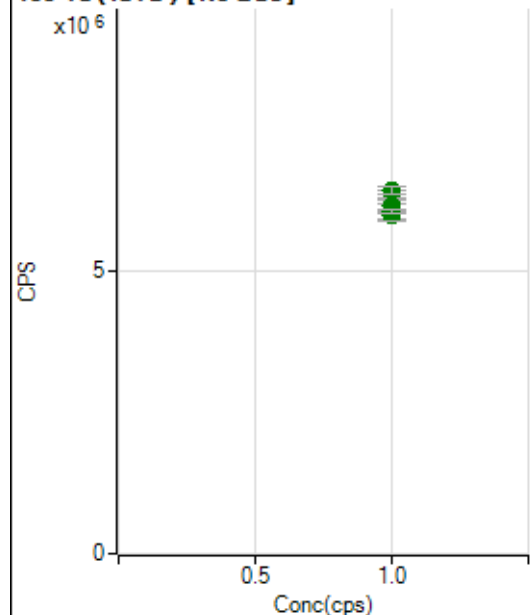
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2572848.12		A	0.7
2	☐	1.000		2571984.68		A	1.1
3	☐	1.000		2552037.34		A	1.4
4	☐	1.000		2582194.67		A	1.6
5	☐	1.000		2559971.91		A	0.6
6	☐	1.000		2569347.57		A	1.6
7	☐	1.000		2590483.21		A	0.8
8	☐	1.000		2473396.51		A	1.4

115 In (ISTD) [No Gas]

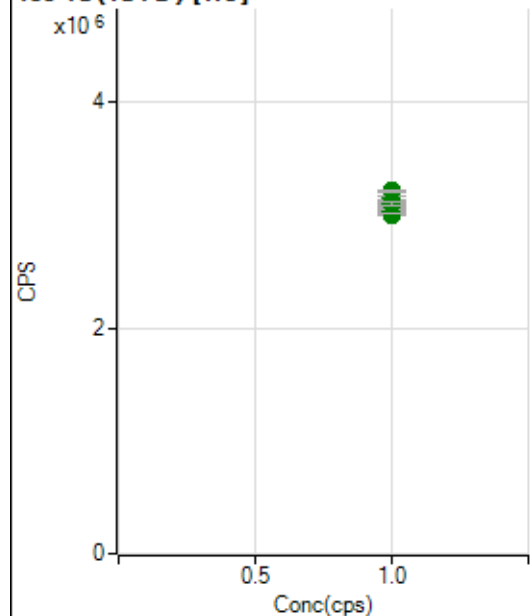
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5280603.53		A	0.3
2	☐	1.000		5126218.08		A	1.6
3	☐	1.000		5169300.22		A	1.8
4	☐	1.000		5265643.43		A	0.7
5	☐	1.000		5253708.36		A	2.3
6	☐	1.000		5297740.38		A	1.9
7	☐	1.000		5253689.48		A	1.5
8	☐	1.000		5044012.81		A	1.8

115 In (ISTD) [He]

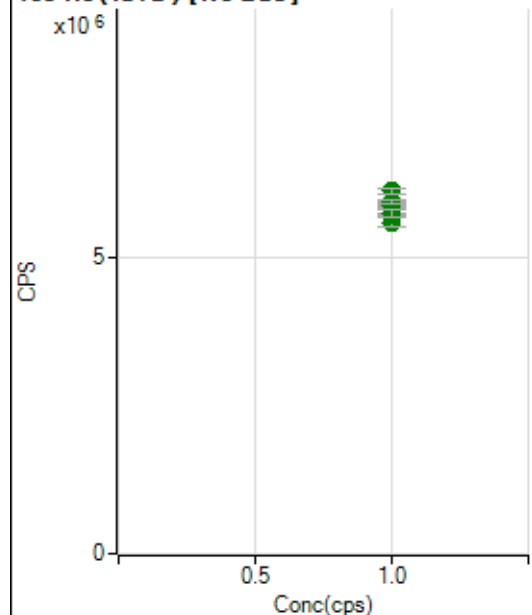
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		942194.81		P	1.0
2	☐	1.000		936164.65		P	1.0
3	☐	1.000		938507.37		P	0.5
4	☐	1.000		948649.55		P	1.1
5	☐	1.000		938398.04		P	0.4
6	☐	1.000		953770.64		P	0.4
7	☐	1.000		954913.67		P	1.1
8	☐	1.000		934042.79		P	1.1

159 Tb (ISTD) [No Gas]

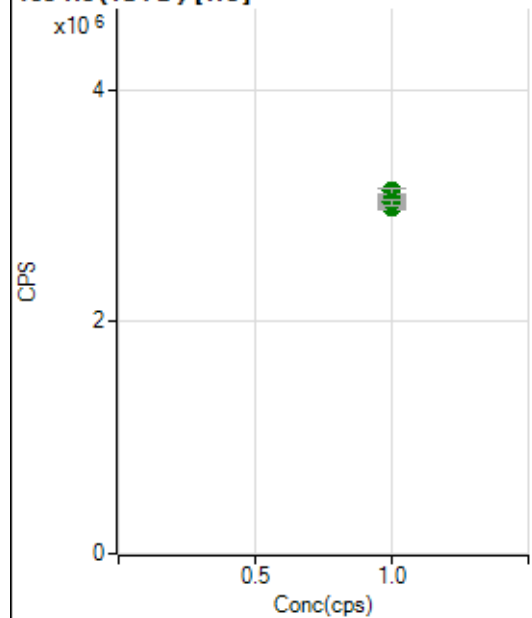
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6150079.35		A	1.3
2	☐	1.000		5993396.78		A	1.8
3	☐	1.000		5990543.87		A	3.0
4	☐	1.000		6159979.70		A	3.2
5	☐	1.000		6277780.32		A	0.5
6	☐	1.000		6360500.67		A	2.0
7	☐	1.000		6423299.28		A	2.1
8	☐	1.000		6047244.08		A	1.2

159 Tb (ISTD) [He]

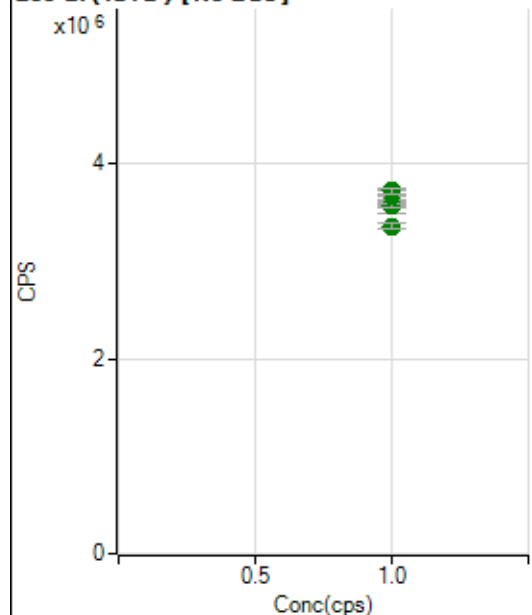
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3046919.96		A	0.9
2	☐	1.000		3002229.26		A	0.3
3	☐	1.000		3037351.66		A	1.3
4	☐	1.000		3119409.36		A	1.1
5	☐	1.000		3109755.89		A	1.8
6	☐	1.000		3142950.02		A	2.1
7	☐	1.000		3213261.69		A	0.6
8	☐	1.000		3104567.18		A	0.9

165 Ho (ISTD) [No Gas]

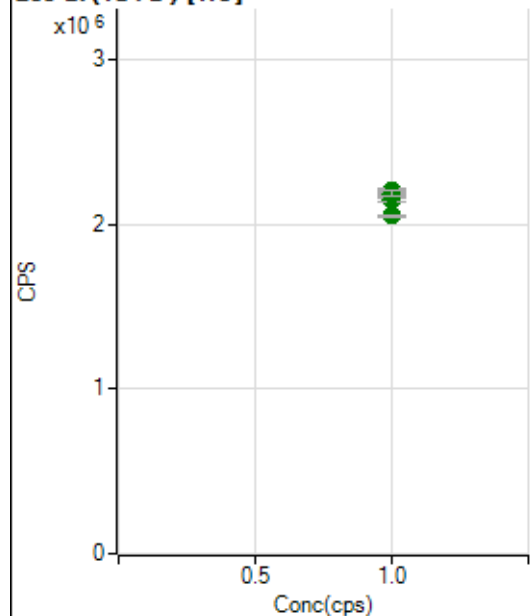
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5771398.74		A	2.7
2	☐	1.000		5612756.55		A	3.1
3	☐	1.000		5720746.79		A	1.3
4	☐	1.000		5814405.56		A	2.8
5	☐	1.000		5896916.02		A	1.9
6	☐	1.000		5955201.00		A	1.2
7	☐	1.000		6140353.96		A	1.5
8	☐	1.000		5769819.01		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3000706.66		A	1.2
2	☐	1.000		2986286.48		A	0.7
3	☐	1.000		2993890.62		A	0.9
4	☐	1.000		2995602.35		A	1.7
5	☐	1.000		3028660.41		A	3.2
6	☐	1.000		3058652.07		A	1.1
7	☐	1.000		3128056.10		A	1.8
8	☐	1.000		3028069.22		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3663493.87		A	1.4
2	☐	1.000		3594253.91		A	1.2
3	☐	1.000		3563959.74		A	4.1
4	☐	1.000		3571015.33		A	1.1
5	☐	1.000		3675702.83		A	2.9
6	☐	1.000		3692491.61		A	1.8
7	☐	1.000		3722297.17		A	1.3
8	☐	1.000		3363803.35		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2180767.95		A	0.8
2	☐	1.000		2178064.90		A	1.5
3	☐	1.000		2182647.10		A	1.8
4	☐	1.000		2191915.43		A	0.6
5	☐	1.000		2155036.82		A	1.2
6	☐	1.000		2204198.42		A	1.2
7	☐	1.000		2189974.97		A	1.7
8	☐	1.000		2050375.33		A	0.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8040523 MS.b
Acq. Date-Time 2023-04-05 11:47:56
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		12033	120332.35			0.546	5.000
24		79920	799199.61			2.065	5.000
25		10641	106411.37			0.437	5.000
26		11949	119493.48			0.768	5.000
59		57892	578923.21			0.558	5.000
113		5573	55728.68			0.699	5.000
115		66862	668619.10			0.393	5.000
206		13127	131265.66			1.669	5.000
207		11920	119200.19			2.291	5.000
208		28323	283229.34			1.913	5.000
220		1	5.80			30.842	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

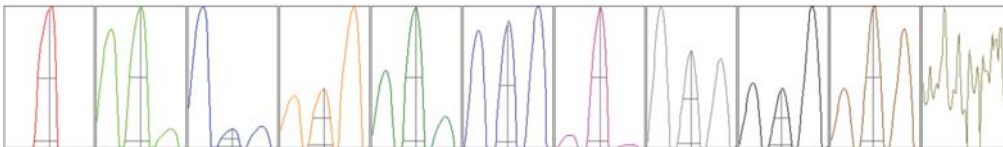
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12072	12004	11967	11996	12128
24	80592	78684	82103	77919	80301
25	10659	10560	10679	10655	10652
26	11935	11802	11998	12044	11967
59	57510	57720	58033	57838	58360
113	5537	5550	5580	5560	5637
115	67017	66516	66740	66833	67203
206	12839	13018	13094	13387	13295
207	11549	11709	12132	12069	12141
208	27703	27758	28675	28720	28759

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	1	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	20871.69	9.05	8.90 - 9.10	
24	141068.07	24.00	23.90 - 24.10	
25	18982.54	25.00	24.90 - 25.10	
26	21504.58	26.00	25.90 - 26.10	
59	110689.10	59.00	58.90 - 59.10	
113	11444.84	113.00	112.90 - 113.10	
115	139646.63	115.05	114.90 - 115.10	
206	26949.54	206.00	205.90 - 206.10	
207	24524.34	206.95	206.90 - 207.10	
208	58182.66	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.776	0.900	
24	0.59	0.815	0.900	
25	0.59	0.780	0.900	
26	0.59	0.820	0.900	
59	0.55	0.737	0.900	
113	0.50	0.689	0.900	
115	0.50	0.714	0.900	
206	0.49	0.762	0.900	
207	0.49	0.770	0.900	
208	0.49	0.770	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.84 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.3 V	Deflect	15.4 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.6 mm	Torch V	-0.9 mm
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EM

Discriminator	4.5 mV	Analog HV	2316 V	Pulse HV	1717 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12996	129958.65			0.588	
89		10036	100359.70			0.751	
205		10986	109858.74			1.954	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	13122	13003	12975	12921	12959
89	10168	9986	10018	9992	10015
205	11365	10896	10903	10931	10834

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.3 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	1.6 mm	Torch V	-0.9 mm		
EM					
Discriminator	4.5 mV	Analog HV	2316 V	Pulse HV	1717 V